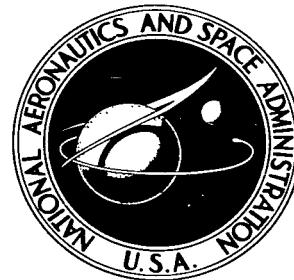


NASA TECHNICAL NOTE



NASA TN D-2494

C.1

NASA TN D-2494

LOAN COPY: RET
AFWL (WLIL)
KIRTLAND AFB,

0154709



TECH LIBRARY KAFB, NM

SUPERPOSITION CALCULATION OF THICK SOLENOID FIELDS FROM SEMI-INFINITE SOLENOID TABLES

*by Gerald V. Brown and Lawrence Flax
Lewis Research Center
Cleveland, Ohio*

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION • WASHINGTON, D. C. • SEPTEMBER 1964

TECH LIBRARY KAFB, NM



0154709

SUPERPOSITION CALCULATION OF THICK SOLENOID FIELDS
FROM SEMI-INFINITE SOLENOID TABLES

By Gerald V. Brown and Lawrence Flax

Lewis Research Center
Cleveland, Ohio

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

For sale by the Office of Technical Services, Department of Commerce,
Washington, D.C. 20230 -- Price \$1.25

SUPERPOSITION CALCULATION OF THICK SOLENOID FIELDS

FROM SEMI-INFINITE SOLENOID TABLES*

by Gerald V. Brown and Lawrence Flax

Lewis Research Center

SUMMARY

The magnetic field of any thick, circular solenoid carrying a uniform current density can be treated as a superposition of the fields of four appropriately placed solenoids of a special type, semi-infinite solenoids with zero inner radius. The radial and axial field components of this special solenoid are expressed nondimensionally in terms of nondimensional field-point variables and are presented in tables and in graphs. The field of any solenoid can be found by adding four numbers determined from the tabulation, each number corresponding to the contribution of one semi-infinite solenoid. Results are valid both on and off the axis and inside as well as outside the solenoid windings.

INTRODUCTION

The magnetic-field components off the axis of a thick solenoid cannot be calculated easily without an electronic computer. Tabulations of these fields, prepared from computer output, are often useful because such tables eliminate further use of computers for these problems. The field components of a thick solenoid, however, depend on four variables: the radial and axial coordinates of the field point and the shape parameters α and β . Although some tabulations and graphs do exist that cover some ranges of the variables (refs. 1 to 5), tabulating or graphing a function of four continuous variables would require a very large amount of space for complete coverage of the range of variables of common interest.

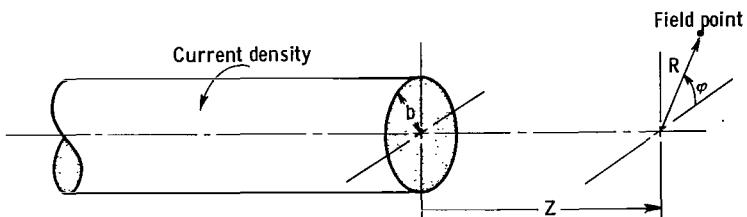


Figure 1. - Semi-infinite solenoid with zero inner radius. Current density is uniform, extending from axis to $R = b$ and from $Z = 0$ to $Z = -\infty$.

A tabulation in terms of only two variables is possible if a superposition method is used to calculate the desired field from the tabulated field of a semi-infinite solenoid with zero inner radius. This semi-infinite solenoid has an axially symmetric, uniform, azimuthal current density that

* This report is an expanded version of the article "Superposition of Semi-Infinite Solenoids for Calculating Magnetic Fields of Thick Solenoids," by Gerald V. Brown and Lawrence Flax, Jour. Appl. Phys., vol. 35, no. 6, June 1964, pp. 1764-1767.

extends from the axis of a cylindrical coordinate system to $R = b$ and from $Z = 0$ to $Z = -\infty$ (fig. 1). Each field component of this semi-infinite solenoid can be expressed nondimensionally, computed electronically, and tabulated as a function of the nondimensional field-point coordinates $r = R/b$ and $z = Z/b$. Any finite solenoid can be considered to be a superposition of four of these semi-infinite solenoids, and the field can be obtained by adding four numbers derived from the tabulation.

SYMBOLS

A_ϕ	azimuthal component of vector potential
a, l, θ	cylindrical coordinates of current element
B	magnetic induction, $\mu_0 H$
B_r	radial component of magnetic induction, $\mu_0 H_r$
B_z	axial component of magnetic induction, $\mu_0 H_z$
b	radius of semi-infinite solenoid
H	magnetic intensity
H_r	radial component of magnetic intensity
H_z	axial component of magnetic intensity
h	nondimensional magnetic intensity, H/J_s
h_r	radial component of nondimensional magnetic intensity, H_r/J_s
h_z	axial component of nondimensional magnetic intensity, H_z/J_s
J	current density
$P(\xi, R, a)$	$\xi^2 + R^2 + a^2 - 2aR \cos \theta$
$Q(R, a)$	$R^2 + a^2 - 2aR \cos \theta$
R, Z, ϕ	cylindrical coordinates of field point
r, z	nondimensional radial and axial coordinates of field point, R/b and Z/b
s	inside radius of finite solenoid
α	ratio of outside to inside diameter of finite solenoid
β	ratio of length to inside diameter of finite solenoid

μ_0 vacuum permeability, $4\pi \times 10^{-7}$ weber/(amp)(m)

ξ $Z = \xi$

Subscripts:

1,2,3,4 values associated with semi-infinite solenoids designated in figure 2

FORMATION OF FINITE SOLENODS BY SUPERPOSITION

Figure 2 shows how four semi-infinite solenoids of appropriate sizes and locations can be superimposed to form a finite solenoid. Because cancellation of oppositely directed current densities occurs in many regions, only the desired finite solenoid is left.

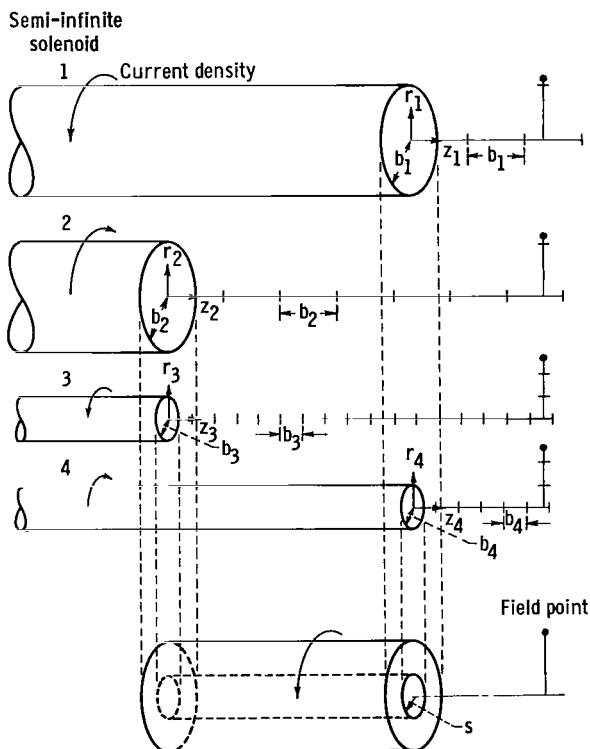


Figure 2. - Formation of finite solenoid from four semi-infinite solenoids.

the inner radius s of the finite solenoid, a nondimensional expression results

$$\frac{H}{Js} = \frac{H_1}{Js} - \frac{H_2}{Js} + \frac{H_3}{Js} - \frac{H_4}{Js}$$

Let the radii of the semi-infinite solenoids be denoted by b_1, b_2, b_3 , and b_4 , where $b_3 = b_4 = s$ and $b_1 = b_2 = as$. Then

The field of the thick, finite solenoid in figure 2 can be expressed in terms of the fields of the four contributing semi-infinite solenoids in the following manner. To simplify notation, no symbols will be used to distinguish radial and axial field components; all equations in this section are valid for either component. Let H_1, H_2, H_3 , and H_4 represent the values of the desired field component that would be contributed by the four semi-infinite solenoids in figure 2 if each had the conventional sense of current circulation. The fields contributed by solenoids 2 and 4 in the figure are thus $-H_2$ and $-H_4$, because the current density has a reversed sense in these two solenoids. The field of the desired thick, finite solenoid is simply the sum of the four contributions of the semi-infinite solenoids:

$$H = H_1 - H_2 + H_3 - H_4 \quad (1)$$

If each term is divided by the current density J (assumed to be uniform) and by

$$\frac{H}{Js} = \frac{\alpha H_1}{Jb_1} - \frac{\alpha H_2}{Jb_2} + \frac{H_3}{Jb_3} - \frac{H_4}{Jb_4}$$

Let the nondimensional quantities such as H_1/Jb_1 be denoted by h_1 , etc. Then

$$\frac{H}{Js} = ah_1 - ah_2 + h_3 - h_4 \quad (2)$$

The terms of equation (2) can be evaluated by using tables I and II or figures 3 and 4 if the proper coordinate systems are used for locating the field point. Since nondimensional tables or graphs are to be used, each semi-infinite solenoid effectively has its own nondimensional coordinate system,

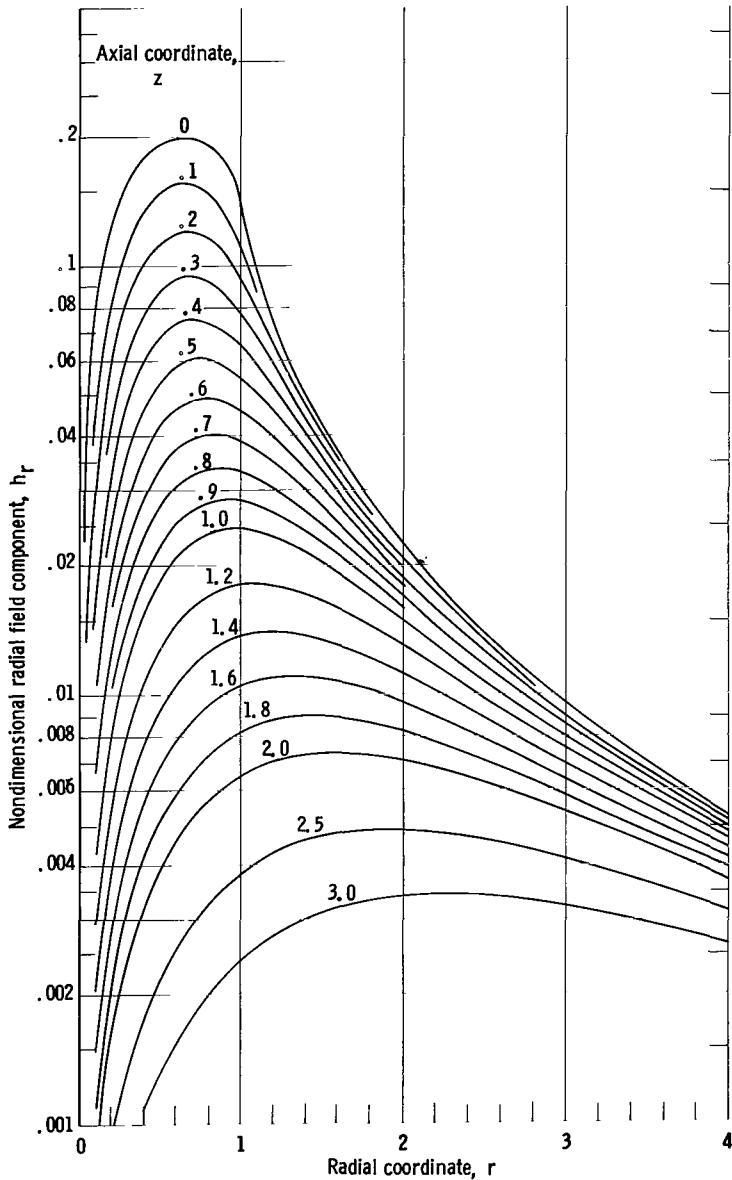


Figure 3. - Nondimensional radial field of semi-infinite solenoid. Curves for negative z are not shown because $h_r(r, -z) = h_r(r, z)$.

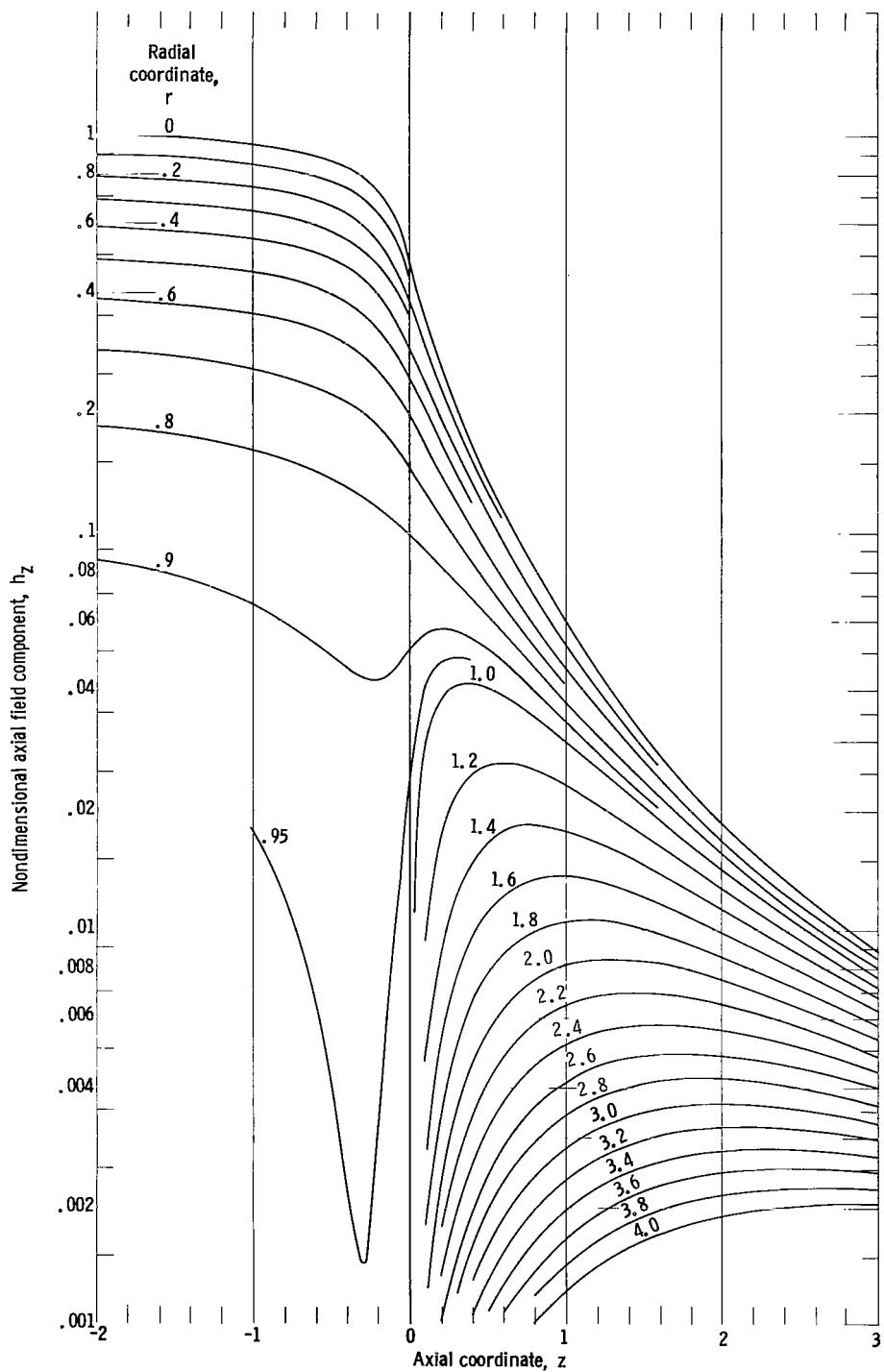


Figure 4. - Nondimensional axial field of semi-infinite solenoid. Curves for negative z and $r \geq 1$ are not shown because $h_z(r, -z) = -h_z(r, z)$, for $r \geq 1$.

with its own radius as the unit of length. The most natural coordinate system to use with a single semi-infinite solenoid is a cylindrical coordinate system with the origin centered on the end face and with a unit of length equal to the radius of the semi-infinite solenoid. In equation (2), therefore, the field point will have different coordinates with respect to each of the four contributing semi-infinite solenoids as shown in figure 2. Note that the unit of length for measuring r_1 and z_1 is b_1 ; for r_3 and z_3 it is b_3 , etc. Making these field-point coordinates explicit in equation (2) yields

$$\frac{H}{J_s} = \alpha h(r_1, z_1) - \alpha h(r_2, z_2) + h(r_3, z_3) - h(r_4, z_4) \quad (3)$$

Equation (3) can be used to calculate the field components of any solenoid of finite length and thickness from tabulated values of $h_r(r, z)$ and $h_z(r, z)$, the nondimensional radial and axial components of the magnetic-field intensity of a semi-infinite solenoid. These functions were calculated from the expressions derived in the appendix, and the results are presented in tables I and II and in figures 3 and 4.

This report is concerned only with solenoids carrying uniform current density. The method of superposition, however, could also be used for another common, practical case, that in which the current density is inversely proportional to the distance from the axis. Of course, tables for a semi-infinite solenoid carrying this kind of current density would be needed.

USE OF THE TABLES AND GRAPHS

The graphs in figures 3 and 4 present values of $h_r(r, z)$ and $h_z(r, z)$ in a compact form that is more convenient to use than the tables; however, the graphs are not as accurate as the tables. If greater accuracy is required, the tables should be used.

There are four tables for each field component. The ranges and increments between the tabulated values of the nondimensional field-point variables for the axial field component are the following:

Table	Increment	Range in z	Range in r
I(a)	0.5	-10.0 to 25.0	0.0 to 15.0
I(b)	.1	-5.0 to 5.0	0.0 to 5.0
I(c)	.05	-1.0 to 1.0	0.0 to 2.0
I(d)	.02	-0.50 to 0.50	0.00 to 1.66

The ranges and increments for the radial field component are the following:

Table	Increment	Range in z	Range in r
II(a)	0.5	0.0 to 25.0	0.0 to 15.0
II(b)	.1	0.0 to 5.0	0.0 to 5.0
II(c)	.05	0.00 to 1.0	0.00 to 2.0
II(d)	.02	0.00 to 0.50	0.00 to 1.66

The radial field component is an even function in z , that is,
 $h_r(r, -z) = h_r(r, z)$; hence, only values for $z \geq 0$ need be tabulated.

Although the functions h_z and h_r are nondimensional, a rationalized unit system must be used because h_r and h_z are derived in a rationalized system. The rationalized mks system is the most common. Hence, if J is in amperes per square meter and s is in meters, H is in amperes per meter and $B = \mu_0 H$, where $\mu_0 = 4\pi \times 10^{-7}$ weber per ampere meter.

As an example of the use of the tables, consider the calculation of the field of a solenoid of inner radius s , outer radius $3s$, and length $4s$ (fig. 5). Suppose that it is desired to calculate the axial field component at an axial distance of $4s$ from the magnet center and at a distance s from the axis. If the field-point variables are expressed in the nondimensional coordinate systems of the four semi-

infinite solenoids, it is apparent from figure 5 that $r_1 = 1/3$, $z_1 = 2/3$, $r_2 = 1/3$, $z_2 = 6/3$, $r_3 = 1$, $z_3 = 6$, $r_4 = 1$, and $z_4 = 2$. Substituting these values into equation (3) yields

$$\frac{H_z}{Js} = 3h_z\left(\frac{1}{3}, \frac{2}{3}\right) - 3h_z\left(\frac{1}{3}, 2\right) + h_z(1, 6) - h_z(1, 2)$$

Values for $h_z(1, 6)$ and $h_z(1, 2)$ can be found in table I(a). Values for $h_z(1/3, 2/3)$ and $h_z(1/3, 2)$ can be found by interpolation; greatest accuracy will be achieved if $h_z(1/3, 2/3)$ is taken from table I(c) and $h_z(1/3, 2)$ is taken from table I(b). Thus

$$\frac{H_z}{Js} = 3 \times 0.09056 - 3 \times 0.01817 + 0.00220 - 0.01423 = 0.20514$$

Approximate values for $h_r(r, z)$ and $h_z(r, z)$ can be quickly obtained from figures 3 and 4. From figure 4

$$\frac{H_z}{Js} = 3 \times 0.092 - 3 \times 0.018 + 0.002 - 0.014 = 0.21$$

The value for $h_z(1, 6)$ was estimated by extrapolation.

If it is recalled that rationalized mks units have been used, the magnetic induction B can be found. For example, if $J = 10^7$ amperes per square meter and if $s = 10^{-2}$ meter, $B_z = \mu_0 H_z = \mu_0 Js \times 0.20514 = 4 \times 10^{-7} \times 10^7 \times 10^{-2} \times 0.20514 = 0.02578$ weber per square meter or 257.8 gauss.

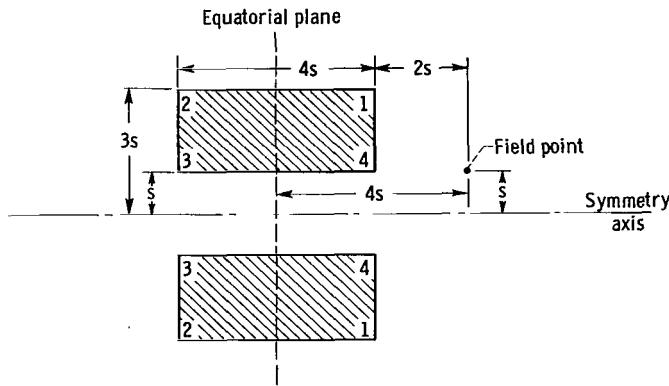


Figure 5. - Cross section of example solenoid showing dimensions needed in calculation. Numbers in corners indicate location of circular edge of end plane of like-numbered semi-infinite solenoid in figure 2.

Table I(c) and $h_z(1/3, 2)$ is taken from table I(b). Thus

ACCURACY

Tables I and II reveal that the field components of the semi-infinite solenoid vary rapidly near the end plane. The increment between tabulated values must therefore be small in this region if good accuracy is to be achieved. On the other hand, calculating the fields of long coils or of very thick coils requires a considerable range of r and z . These requirements for small increments and large range were taken into account by constructing the tables with various increments and ranges. The increments and ranges were chosen to give reasonable accuracy if linear interpolation is used. The table with the smallest possible increment should be used when interpolating. More complicated methods of interpolation yield more accurate results, but these methods are usually laborious because the tables are two-way arrays.

In the axial field table (table I) for negative values of z , the differences between the values of h_z for adjacent values of r are much larger than the corresponding differences taken for positive values of z . Nevertheless, linear interpolation yields the same accuracy for negative z as for positive z . This assertion can be verified by using the first two special properties given in the next section.

Although a field value containing two or three significant figures will suffice for most purposes, it is sometimes necessary to carry the full accuracy of the tabulated and interpolated numbers through to the end of a calculation, because a subtraction of numbers of comparable size may remove one or more of the leading digits. In any given calculation the result will indicate whether accuracy has been lost through subtraction. For instance, in the example presented earlier (p. 7), the final result for H/J_s was 0.20514. Errors from linear interpolation could affect the last two decimal places; so this result is accurate to within a few parts in two thousand. If only three decimal places were used throughout the calculation, the error would still be less than 1 percent. But if the first nonzero figure in H/J_s were in the second or third decimal place, a three-decimal-place result would be much less accurate.

The superposition method of calculating fields is inaccurate for very thin solenoids or for very short coils because of the subtraction process. Accuracy is lost through subtraction because the shorter or the thinner the coil becomes, the closer together are the values extracted from the tables. For very thin solenoids, the tables for a semi-infinite current sheet (ref. 3) can be used.

For coils that are neither very thin nor very short, fewer significant figures and larger increments are allowable for the semi-infinite solenoid tabulation. In fact, the curves given in figures 3 and 4 suffice for calculating the fields of most practical solenoids with errors of a few percent or less. It is remarkable that so much information about solenoids can be presented in two graphs.

)
SPECIAL PROPERTIES OF SEMI-INFINITE

SOLENOIDS WITH ZERO INNER RADIUS

The following useful properties of the field of the semi-infinite solenoid can be derived from equations (A4), (A5), and (A11):

(1) For $z = 0$ the nondimensional axial field h_z varies linearly from 0.5 on the axis to zero at $r = 1$. For $r \geq 1$ the axial field is zero.

(2) For a given value of r , the sum of the axial field components at positive and negative z equals twice the value for $z = 0$:
$$h_z(r,z) + h_z(r,-z) = 2h_z(r,0).$$

(3) From the first two properties, it is evident that for $r > 1$ the axial fields at positive and negative z for a given radius are equal in magnitude but opposite in sign: $h_z(r,z) = -h_z(r,-z)$ for $r > 1$.

(4) For any given r the radial field components are equal both in magnitude and in sign for positive and negative z : $h_r(r,z) = h_r(r,-z)$.

CONCLUDING REMARKS

It has been shown how the magnetic-field components of a thick, finite solenoid can be calculated from tables of the field of a semi-infinite solenoid with zero inner radius. The method involves superposition of four of these special solenoids to form the finite solenoid. Only solenoids carrying uniform current density were considered. The method, however, can be adapted for solenoids in which the current density is inversely proportional to the radius, and tables for a semi-infinite solenoid with that current density can be prepared.

Lewis Research Center
National Aeronautics and Space Administration
Cleveland, Ohio, May 21, 1964

APPENDIX - DERIVATION OF EXPRESSIONS FOR RADIAL AND AXIAL
FIELD COMPONENTS OF SEMI-INFINITE SOLENOIDS

The expressions for the radial and axial field components of the semi-infinite solenoid with vanishing inner radius are derived from the magnetic vector potential by using

$$\left. \begin{aligned} B_z &= \frac{1}{R} \frac{\partial}{\partial R} (RA_\phi) \\ B_r &= - \frac{\partial A_\phi}{\partial Z} \end{aligned} \right\} \quad (A1)$$

where the cylindrical field-point coordinates (R, Z, ϕ) are used. Since the current is purely azimuthal, the only nonvanishing component of the vector potential is the azimuthal component A_ϕ . The contribution of an elemental loop of radial thickness da and axial width dl , where the source-point radial and axial coordinates are a and l , respectively, to the vector potential at field-point coordinates R and Z is

$$dA_\phi = \frac{\mu_0 J}{2\pi} \int_0^\pi \frac{a \cos \theta dl da d\theta}{[(Z - l)^2 + R^2 + a^2 - 2aR \cos \theta]^{1/2}} \quad (A2)$$

where rationalized mks units are used. Let the semi-infinite solenoid of radius b be positioned with its end plane at $l = 0$, and let it extend to $-\infty$. Integrating over all elemental loops from $-\infty$ to 0 in l and from 0 to b in a and setting $\xi = Z - l$ and $d\xi = -dl$ result in

$$A_\phi = \frac{\mu_0 J}{2\pi} \int_Z^\infty d\xi \int_0^b da \int_0^\pi \frac{a \cos \theta d\theta}{(\xi^2 + R^2 + a^2 - 2aR \cos \theta)^{1/2}} \quad (A3)$$

From equations (A1) and (A3) and $B = \mu_0 H$, H_r becomes

$$H_r = \frac{J}{2\pi} \int_0^b da \int_0^\pi \frac{a \cos \theta da d\theta}{(Z^2 + R^2 + a^2 - 2aR \cos \theta)^{1/2}}$$

Integration with respect to a gives

$$H_r = \frac{J}{2\pi} \left[\int_0^\pi \cos \theta (Z^2 + R^2 + b^2 - 2bR \cos \theta)^{1/2} d\theta + \int_0^\pi R \cos^2 \theta \sinh^{-1} \frac{b - R \cos \theta}{(Z^2 + R^2 \sin^2 \theta)^{1/2}} d\theta \right]$$

This equation can be put in nondimensional form by dividing both sides by Jb and introducing the nondimensional field-point variables $r = R/b$ and $z = Z/b$:

$$\begin{aligned} \frac{H_r}{Jb} &= \frac{1}{2\pi} \int_0^\pi \cos \theta (z^2 + r^2 + 1 - 2r \cos \theta)^{1/2} d\theta \\ &\quad + \frac{r}{2\pi} \int_0^\pi \cos^2 \theta \sinh^{-1} \frac{1 - r \cos \theta}{(z^2 + r^2 \sin^2 \theta)^{1/2}} d\theta \end{aligned} \quad (A4)$$

For $z = 0$ the second integral of equation (A4) presents difficulties for machine integration because it is improper; however, it can be integrated by parts for $z = 0$ to get the following expression:

$$\begin{aligned} \frac{H_r}{Jb} &= \frac{1}{2\pi} \int_0^\pi \cos \theta (1 + r^2 - 2r \cos \theta)^{1/2} d\theta \\ &\quad + \frac{r}{2\pi} \int_0^\pi \sin^2 \theta \sinh^{-1} \frac{1 - r \cos \theta}{r \sin \theta} d\theta - \frac{r}{2\pi} \int_0^\pi \frac{\cos \theta (r - \cos \theta) d\theta}{(1 + r^2 - 2r \cos \theta)^{1/2}} \end{aligned} \quad (A5)$$

An expression for the axial field component is derived next from the expanded form of equation (A1):

$$B_z = \frac{\partial A_\phi}{\partial R} + \frac{A_\phi}{R} \quad (A6)$$

It is convenient to differentiate expression (A3) for the $\partial A_\phi / \partial R$ term but to use another form of A_ϕ for the A_ϕ / R term. Integrating the right side of equation (A3) by parts with respect to θ gives the desired new form of A_ϕ , which leads to

$$\frac{A_\Phi}{R} = \frac{\mu_0 J}{2\pi} \int_Z^\infty d\xi \int_0^b da \int_0^\pi a^2 \sin^2 \theta P^{-3/2} d\theta \quad . \quad (A7)$$

where $P(\xi, R, a) = \xi^2 + R^2 + a^2 - 2aR \cos \theta$. Equations (A3), (A6), and (A7) give

$$\begin{aligned} H_z &= \frac{J}{2\pi} \int_Z^\infty d\xi \int_0^b da \int_0^\pi P^{-3/2} a(a - R \cos \theta) d\theta \\ &= \frac{J}{2\pi} \int_0^b da \int_0^\pi \frac{a\xi(a - R \cos \theta) d\theta}{QP^{1/2}} \Big|_Z^\infty \end{aligned} \quad (A8)$$

where

$$Q(R, a) = R^2 + a^2 - 2aR \cos \theta$$

Equation (A8) can be rewritten as

$$\begin{aligned} H_z &= \frac{J}{2\pi} \left\{ \xi \int_0^\pi d\theta \int_0^b \frac{da}{P^{1/2}} + \xi \int_0^\pi d\theta \int_0^b \frac{(a - R \cos \theta) R \cos \theta da}{QP^{1/2}} \right. \\ &\quad \left. - \xi \int_0^\pi d\theta \int_0^b \frac{R^2 \sin^2 \theta da}{QP^{1/2}} \right\} \Big|_Z^\infty \\ &= \frac{J}{2\pi} \left\{ \xi \int_0^\pi \ln \left[a - R \cos \theta + P^{1/2} \right] d\theta \right. \\ &\quad + \int_0^\pi \frac{\xi R \cos \theta}{2|\xi|} \ln \left[\frac{P^{1/2} - |\xi|}{P^{1/2} + |\xi|} \right] d\theta \\ &\quad \left. - \int_0^\pi \frac{\xi R \sin \theta \tan^{-1} \frac{|\xi|(a - R \cos \theta)}{RP^{1/2} \sin \theta}}{|\xi|} d\theta \right\} \Big|_0^b \Big|_Z^\infty \end{aligned}$$

Upon integration by parts the second term in the last expression becomes

$$-\xi a R^2 \int_0^\pi \frac{\sin^2 \theta \, d\theta}{Q P^{1/2}}$$

The limits for the source-point variable a can now be substituted. Note that

$$\int_0^\pi \ln \left(-R \cos \theta + \sqrt{\xi^2 + R^2} \right) d\theta = \pi \ln \frac{\sqrt{\xi^2 + R^2} + |\xi|}{2}$$

which can be written as

$$\int_0^\pi \ln \frac{1}{2} \left(\sqrt{\xi^2 + R^2} + |\xi| \right) d\theta$$

Then

$$H_Z = \frac{J}{2\pi} \left\{ \begin{aligned} & \int_0^\pi \ln \frac{2 \left[b - R \cos \theta + (\xi^2 + R^2 + b^2 - 2bR \cos \theta)^{1/2} \right]}{|\xi| + (\xi^2 + R^2)^{1/2}} d\theta \\ & - \xi b R^2 \int_0^\pi \frac{\sin^2 \theta \, d\theta}{(R^2 + b^2 - 2bR \cos \theta)(\xi^2 + R^2 + b^2 - 2bR \cos \theta)^{1/2}} \\ & - \frac{R\xi}{|\xi|} \int_0^\pi \sin \theta \tan^{-1} \frac{|\xi|(b - R \cos \theta)}{R \sin \theta (\xi^2 + R^2 + b^2 - 2bR \cos \theta)^{1/2}} d\theta \Bigg\} \Bigg|_Z \end{aligned} \right. \quad (A9)$$

The limits for the source-point variable ξ may now be substituted. First consider each term of equation (A9) individually, and put in $\xi \rightarrow \infty$.

In the first term note that

$$\lim_{\xi \rightarrow \infty} \left(\xi \ln \frac{b - R \cos \theta + \xi}{\xi} \right) = b - R \cos \theta$$

The first term thus becomes $b\pi$. The second term of equation (A9) becomes

$$\lim_{\xi \rightarrow \infty} (-\xi b R^2) \int_0^\pi \frac{\sin^2 \theta \, d\theta}{Q(R, b) [\xi^2 + Q(R, b)]^{1/2}} = -b R^2 \int_0^\pi \frac{\sin^2 \theta \, d\theta}{R^2 + b^2 - 2bR \cos \theta}$$

$$= \begin{cases} -\frac{\pi R^2}{2b} & \text{for } R \leq b \\ -\frac{\pi b}{2} & \text{for } R \geq b \end{cases}$$

In the third term of equation (A9) consider the integral alone without the $-R\xi/|\xi|$ in front. Taking the limit as ξ approaches ∞ gives

$$\int_0^\pi \sin \theta \tan^{-1} \left(\frac{b - R \cos \theta}{R \sin \theta} \right) d\theta \quad (\text{A10})$$

This expression can be evaluated by considering it as a function of R , say $Y(R)$, and differentiating with respect to R :

$$\frac{\partial Y(R)}{\partial R} = - \int_0^\pi \frac{b \sin^2 \theta \, d\theta}{Q(R, b)} = \begin{cases} -\frac{\pi}{2b} & \text{for } R \leq b \\ \frac{\pi b}{2R^2} & \text{for } R \geq b \end{cases}$$

Then

$$Y(R) = \begin{cases} -\frac{\pi R}{2b} + C & \text{for } R \leq b \\ +\frac{\pi b}{2R} + D & \text{for } R \geq b \end{cases}$$

where C and D are constants of integration evaluated by noting from expression (A10) that $Y(0) = \pi$ and $Y(\infty) = 0$. Then

$$Y(R) = \begin{cases} \pi \left(\frac{-R}{2b} + 1 \right) & \text{for } R < b \\ \frac{\pi b}{2R} & \text{for } R > b \end{cases}$$

The entire third term of equation (A9), evaluated for $\xi \rightarrow \infty$, is then

$$\begin{cases} \pi R \left(\frac{R}{2b} - 1 \right) & \text{for } R < b \\ -\frac{\pi b}{2} & \text{for } R > b \end{cases}$$

Consolidating the results of substituting $\xi \rightarrow \infty$ into equation (A9) yields

$$\begin{cases} \pi(b - R) & \text{for } R < b \\ 0 & \text{for } R > b \end{cases}$$

This expression can be written in the form $\frac{\pi}{2} (b - R + |b - R|)$, which is valid for any R . Equation (A9) becomes

$$H_Z = \frac{J}{2\pi} \left\{ -Z \int_0^\pi d\theta \ln \frac{2[b - R \cos \theta + P^{1/2}(z, R, b)]}{|z| + (z^2 + R^2)^{1/2}} + ZbR^2 \int_0^\pi \frac{\sin^2 \theta d\theta}{Q(R, b) P^{1/2}(z, R, b)} \right. \\ \left. + \frac{RZ}{|z|} \int_0^\pi d\theta \sin \theta \tan^{-1} \frac{|z|(b - R \cos \theta)}{R \sin \theta P^{1/2}(z, R, b)} + \frac{\pi}{2} (b - R + |b - R|) \right\}$$

This equation can be nondimensionalized by dividing both sides by Jb and setting $r = R/b$, $z = Z/b$:

$$\frac{H_Z}{Jb} = -\frac{z}{2\pi} \int_0^\pi d\theta \ln \frac{2[1 - r \cos \theta + P^{1/2}(z, r, 1)]}{|z| + (z^2 + r^2)^{1/2}} + \frac{zr^2}{2\pi} \int_0^\pi \frac{\sin^2 \theta d\theta}{Q(r, 1) P^{1/2}(z, r, 1)} \\ + \frac{rz}{2\pi |z|} \int_0^\pi d\theta \sin \theta \tan^{-1} \frac{|z|(1 - r \cos \theta)}{r \sin \theta P^{1/2}(z, r, 1)} + \frac{1}{4} (1 - r + |1 - r|) \quad (\text{All})$$

Equations (A4), (A5), and (All) were programmed for a computer, and the tables presented herein were automatically printed in their final form.

REFERENCES

1. Brown, Gerald V., Flax, Lawrence, Itean, Eugene C., and Laurence, James C.: Axial and Radial Magnetic Fields of Thick, Finite-Length Solenoids. NASA TR R-170, 1963.
2. Callaghan, Edmund E., and Maslen, Stephen H.: The Magnetic Field of a Finite Solenoid. NASA TN D-465, 1960.
3. Alexander, Nancy B., and Downing, Arthur C.: Tables for a Semi-Infinite Circular Current Sheet. ORNL-2828, Oak Ridge Nat. Lab., Oct. 13, 1959.
4. Mapother, Dillon E., and Snyder, James N.: The Axial Variation of the Magnetic Field in Solenoids of Finite Thickness. Tech. Rep. 5, Univ. Ill., Nov. 16, 1954.
5. Morris, David E., and Kilgore, Robert A.: The Magnetic Field on the Axis of Circular Cylindrical Coils. NASA TN D-1013, 1962.

TABLE I. - NONDIMENSIONAL AXIAL FIELD COMPONENT h_z

(a) Increments in axial and radial coordinates, 0.5

Axial coordinate, z	Radial coordinate, r															
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
-10.0	0.99917	0.49917	-0.00082	-0.000080	-0.00078	-0.00076	-0.00073	-0.00070	-0.00067	-0.00063	-0.00060	-0.00056	-0.00053	-0.00049	-0.00046	-0.00043
-9.5	0.99908	0.49908	-0.00090	-0.00089	-0.00086	-0.00083	-0.00080	-0.00076	-0.00072	-0.00068	-0.00064	-0.00060	-0.00056	-0.00052	-0.00048	-0.00045
-9.0	0.99898	0.49898	-0.00100	-0.00098	-0.00092	-0.00088	-0.00083	-0.00078	-0.00073	-0.00069	-0.00064	-0.00059	-0.00055	-0.00051	-0.00047	
-8.5	0.99885	0.49886	-0.00112	-0.00110	-0.00106	-0.00101	-0.00096	-0.00091	-0.00085	-0.00079	-0.00074	-0.00068	-0.00063	-0.00058	-0.00053	-0.00049
-8.0	0.99871	0.49871	-0.00126	-0.00123	-0.00118	-0.00113	-0.00106	-0.00093	-0.00086	-0.00079	-0.00073	-0.00067	-0.00061	-0.00056	-0.00051	
-7.5	0.99853	0.49854	-0.00143	-0.00139	-0.00133	-0.00126	-0.00118	-0.00110	-0.00102	-0.00093	-0.00085	-0.00078	-0.00071	-0.00064	-0.00058	-0.00052
-7.0	0.99831	0.49833	-0.00164	-0.00158	-0.00150	-0.00141	-0.00131	-0.00121	-0.00111	-0.00101	-0.00092	-0.00083	-0.00074	-0.00067	-0.00060	-0.00054
-6.5	0.99805	0.49806	-0.00189	-0.00181	-0.00171	-0.00159	-0.00147	-0.00134	-0.00122	-0.00109	-0.00098	-0.00088	-0.00078	-0.00070	-0.00062	-0.00056
-6.0	0.99771	0.49774	-0.00220	-0.00209	-0.00196	-0.00181	-0.00165	-0.00149	-0.00133	-0.00118	-0.00105	-0.00093	-0.00082	-0.00072	-0.00064	-0.00057
-5.5	0.99729	0.49732	-0.00259	-0.00245	-0.00227	-0.00206	-0.00185	-0.00165	-0.00146	-0.00128	-0.00112	-0.00098	-0.00085	-0.00074	-0.00065	-0.00057
-5.0	0.99672	0.49677	-0.00309	-0.00289	-0.00264	-0.00237	-0.00209	-0.00183	-0.00159	-0.00137	-0.00118	-0.00102	-0.00088	-0.00076	-0.00066	-0.00057
-4.5	0.99597	0.49604	-0.00376	-0.00346	-0.00311	-0.00273	-0.00236	-0.00202	-0.00172	-0.00146	-0.00124	-0.00105	-0.0009	-0.00076	-0.00065	-0.00056
-4.0	0.99493	0.49504	-0.00465	-0.00420	-0.00368	-0.00316	-0.00266	-0.00222	-0.00185	-0.00153	-0.00128	-0.00107	-0.00089	-0.00075	-0.00064	-0.00055
-3.5	0.99344	0.49362	-0.00589	-0.00518	-0.00440	-0.00365	-0.00298	-0.00242	-0.00196	-0.00159	-0.00129	-0.00106	-0.00088	-0.00073	-0.00061	-0.00052
-3.0	0.99117	0.49150	-0.00765	-0.00649	-0.00529	-0.00420	-0.00329	-0.00258	-0.00202	-0.00160	-0.00128	-0.00103	-0.00084	-0.00069	-0.00057	-0.00048
-2.5	0.98754	0.48816	-0.01025	-0.00825	-0.00633	-0.00475	-0.00355	-0.00266	-0.00202	-0.00155	-0.00121	-0.00096	-0.00077	-0.00062	-0.00051	-0.00043
-2.0	0.98121	0.48254	-0.01423	-0.01056	-0.00745	-0.00519	-0.00365	-0.00261	-0.00191	-0.00142	-0.00109	-0.00084	-0.00067	-0.00044	-0.00036	
-1.5	0.96886	0.47215	-0.02048	-0.01333	-0.00833	-0.00527	-0.00345	-0.00234	-0.00165	-0.00120	-0.00090	-0.00069	-0.00054	-0.00043	-0.00034	-0.00028
-1.0	0.94069	0.45058	-0.03005	-0.01559	-0.00816	-0.00459	-0.00279	-0.00181	-0.00123	-0.00088	-0.00064	-0.00049	-0.00038	-0.00030	-0.00024	-0.00019
-0.5	0.86091	0.39844	-0.04098	-0.01347	-0.00555	-0.00279	-0.00159	-0.00099	-0.00066	-0.00046	-0.00034	-0.00025	-0.00019	-0.00015	-0.00012	-0.00010
0.0	0.50000	0.25000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
.5	0.13909	0.10156	0.04098	0.01347	0.00555	0.00279	0.00159	0.00099	0.00066	0.00046	0.00034	0.00025	0.00019	0.00015	0.00012	0.00010
1.0	0.05931	0.04942	0.03005	0.01559	0.00816	0.00459	0.00279	0.00181	0.00123	0.00088	0.00064	0.00049	0.00038	0.00030	0.00024	0.00019
1.5	0.03114	0.02785	0.02048	0.01333	0.00833	0.00527	0.00345	0.00234	0.00165	0.00120	0.00090	0.00069	0.00054	0.00043	0.00034	0.00028
2.0	0.01879	0.01746	0.01423	0.01056	0.00745	0.00519	0.00365	0.00261	0.00191	0.00142	0.00109	0.00084	0.00067	0.00054	0.00044	0.00036
2.5	0.01246	0.01184	0.01025	0.00825	0.00633	0.00475	0.00355	0.00266	0.00202	0.00155	0.00121	0.00096	0.00077	0.00062	0.00051	0.00043
3.0	0.00883	0.00850	0.00765	0.00649	0.00529	0.00420	0.00329	0.00258	0.00202	0.00160	0.00128	0.00103	0.00084	0.00069	0.00057	0.00048
3.5	0.00656	0.00638	0.00589	0.00518	0.00440	0.00365	0.00298	0.00242	0.00196	0.00159	0.00129	0.00106	0.00088	0.00073	0.00061	0.00052
4.0	0.00507	0.00496	0.00465	0.00420	0.00368	0.00316	0.00266	0.00222	0.00185	0.00153	0.00128	0.00107	0.00089	0.00075	0.00064	0.00055
4.5	0.00403	0.00396	0.00376	0.00346	0.00311	0.00273	0.00236	0.00202	0.00172	0.00146	0.00124	0.00105	0.00089	0.00076	0.00065	0.00056
5.0	0.00328	0.00323	0.00309	0.00289	0.00264	0.00237	0.00209	0.00183	0.00159	0.00137	0.00118	0.00102	0.00088	0.00076	0.00066	0.00057
5.5	0.00271	0.00268	0.00259	0.00245	0.00227	0.00206	0.00185	0.00165	0.00146	0.00128	0.00112	0.00098	0.00085	0.00074	0.00065	0.00057
6.0	0.00229	0.00226	0.00220	0.00209	0.00196	0.00181	0.00165	0.00149	0.00133	0.00118	0.00105	0.00093	0.00082	0.00072	0.00064	0.00057
6.5	0.00195	0.00194	0.00189	0.00181	0.00171	0.00159	0.00147	0.00134	0.00122	0.00109	0.00098	0.00088	0.00078	0.00070	0.00062	0.00056
7.0	0.00169	0.00167	0.00164	0.00158	0.00150	0.00141	0.00131	0.00111	0.00101	0.00092	0.00083	0.00074	0.00067	0.00060	0.00054	
7.5	0.00147	0.00146	0.00143	0.00139	0.00133	0.00126	0.00118	0.00102	0.00093	0.00085	0.00078	0.00071	0.00064	0.00058	0.00052	
8.0	0.00129	0.00129	0.00126	0.00123	0.00118	0.00113	0.00106	0.00100	0.00093	0.00086	0.00079	0.00073	0.00067	0.00061	0.00056	0.00051
8.5	0.00115	0.00114	0.00112	0.00110	0.00106	0.00101	0.00096	0.00091	0.00085	0.00079	0.00074	0.00068	0.00063	0.00058	0.00053	0.00049
9.0	0.00102	0.00102	0.00100	0.00098	0.00095	0.00092	0.00088	0.00083	0.00078	0.00073	0.00069	0.00064	0.00059	0.00055	0.00051	0.00047
9.5	0.00092	0.00092	0.00090	0.00089	0.00086	0.00083	0.00080	0.00076	0.00072	0.00068	0.00064	0.00060	0.00056	0.00052	0.00048	0.00045

10.0	0.00083	0.00083	0.00082	0.00080	0.00078	0.00076	0.00073	0.00070	0.00067	0.00063	0.00060	0.00056	0.00053	0.00049	0.00046	0.00043
10.5	0.00075	0.00075	0.00074	0.00073	0.00071	0.00069	0.00067	0.00064	0.00062	0.00059	0.00056	0.00052	0.00049	0.00046	0.00044	0.00041
11.0	0.00069	0.00068	0.00068	0.00067	0.00065	0.00064	0.00062	0.00059	0.00057	0.00055	0.00052	0.00049	0.00047	0.00044	0.00041	0.00039
11.5	0.00063	0.00063	0.00062	0.00061	0.00060	0.00059	0.00057	0.00055	0.00053	0.00051	0.00049	0.00046	0.00044	0.00042	0.00039	0.00037
12.0	0.00058	0.00058	0.00057	0.00056	0.00055	0.00054	0.00053	0.00051	0.00049	0.00047	0.00045	0.00043	0.00041	0.00039	0.00037	0.00035
12.5	0.00053	0.00053	0.00053	0.00052	0.00051	0.00050	0.00049	0.00048	0.00046	0.00044	0.00043	0.00041	0.00039	0.00037	0.00035	0.00034
13.0	0.00049	0.00049	0.00049	0.00048	0.00048	0.00047	0.00046	0.00044	0.00043	0.00042	0.00040	0.00038	0.00037	0.00035	0.00034	0.00032
13.5	0.00046	0.00046	0.00045	0.00045	0.00044	0.00043	0.00042	0.00041	0.00040	0.00039	0.00038	0.00036	0.00035	0.00033	0.00032	0.00031
14.0	0.00042	0.00042	0.00042	0.00042	0.00041	0.00040	0.00040	0.00039	0.00038	0.00037	0.00035	0.00034	0.00033	0.00032	0.00030	0.00029
14.5	0.00040	0.00040	0.00039	0.00039	0.00038	0.00037	0.00036	0.00035	0.00035	0.00033	0.00032	0.00031	0.00030	0.00029	0.00028	
15.0	0.00037	0.00037	0.00037	0.00036	0.00036	0.00035	0.00034	0.00033	0.00033	0.00032	0.00031	0.00030	0.00029	0.00028	0.00027	
15.5	0.00035	0.00035	0.00034	0.00034	0.00034	0.00033	0.00033	0.00032	0.00031	0.00031	0.00030	0.00029	0.00028	0.00027	0.00026	0.00025
16.0	0.00033	0.00032	0.00032	0.00032	0.00032	0.00031	0.00031	0.00030	0.00030	0.00029	0.00028	0.00028	0.00027	0.00026	0.00025	0.00024
16.5	0.00031	0.00031	0.00030	0.00030	0.00030	0.00030	0.00029	0.00029	0.00028	0.00027	0.00027	0.00026	0.00025	0.00025	0.00024	0.00023
17.0	0.00029	0.00029	0.00029	0.00028	0.00028	0.00028	0.00027	0.00027	0.00026	0.00025	0.00025	0.00024	0.00024	0.00023	0.00022	
17.5	0.00027	0.00027	0.00027	0.00027	0.00027	0.00026	0.00026	0.00026	0.00025	0.00025	0.00024	0.00024	0.00023	0.00022	0.00022	0.00021
18.0	0.00026	0.00026	0.00026	0.00025	0.00025	0.00025	0.00025	0.00024	0.00024	0.00023	0.00023	0.00022	0.00021	0.00021	0.00021	0.00020
18.5	0.00024	0.00024	0.00024	0.00024	0.00024	0.00023	0.00023	0.00023	0.00022	0.00022	0.00022	0.00021	0.00021	0.00020	0.00020	0.00019
19.0	0.00023	0.00023	0.00023	0.00023	0.00023	0.00022	0.00022	0.00022	0.00022	0.00021	0.00021	0.00020	0.00020	0.00019	0.00019	0.00019
19.5	0.00022	0.00022	0.00022	0.00022	0.00022	0.00021	0.00021	0.00021	0.00020	0.00020	0.00020	0.00019	0.00019	0.00018	0.00018	
20.0	0.00021	0.00021	0.00021	0.00021	0.00021	0.00020	0.00020	0.00020	0.00019	0.00019	0.00018	0.00018	0.00018	0.00018	0.00017	
20.5	0.00020	0.00020	0.00020	0.00020	0.00020	0.00019	0.00019	0.00019	0.00019	0.00018	0.00018	0.00018	0.00018	0.00017	0.00017	0.00016
21.0	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00018	0.00018	0.00018	0.00018	0.00017	0.00017	0.00017	0.00016	0.00016	0.00016
21.5	0.00018	0.00018	0.00018	0.00018	0.00018	0.00018	0.00018	0.00017	0.00017	0.00017	0.00017	0.00016	0.00016	0.00016	0.00016	0.00015
22.0	0.00017	0.00017	0.00017	0.00017	0.00017	0.00017	0.00017	0.00017	0.00016	0.00016	0.00016	0.00016	0.00015	0.00015	0.00015	0.00015
22.5	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00015	0.00015	0.00015	0.00015	0.00014	0.00014
23.0	0.00016	0.00016	0.00016	0.00016	0.00016	0.00015	0.00015	0.00015	0.00015	0.00015	0.00015	0.00014	0.00014	0.00014	0.00014	0.00014
23.5	0.00015	0.00015	0.00015	0.00015	0.00015	0.00015	0.00015	0.00015	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00013	0.00013
24.0	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00013	0.00013	0.00013	0.00013
24.5	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00012	0.00012
25.0	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00012	0.00012	0.00012	0.00012	0.00012

TABLE I. - Continued. NONDIMENSIONAL AXIAL FIELD COMPONENT h_z
 (a) Concluded. Increments in axial and radial coordinates, 0.5

Axial coordinate, z	Radial coordinate, r														
	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0
-10.0	-0.00040	-0.00037	-0.00034	-0.00032	-0.00030	-0.00027	-0.00025	-0.00024	-0.00022	-0.00020	-0.00019	-0.00018	-0.00016	-0.00015	-0.00014
-9.5	-0.00041	-0.00038	-0.00035	-0.00033	-0.00030	-0.00028	-0.00026	-0.00024	-0.00022	-0.00020	-0.00019	-0.00018	-0.00016	-0.00015	-0.00014
-9.0	-0.00043	-0.00040	-0.00036	-0.00034	-0.00031	-0.00028	-0.00026	-0.00024	-0.00022	-0.00021	-0.00019	-0.00018	-0.00016	-0.00015	-0.00014
-8.5	-0.00045	-0.00041	-0.00037	-0.00034	-0.00031	-0.00029	-0.00026	-0.00024	-0.00022	-0.00021	-0.00019	-0.00017	-0.00016	-0.00015	-0.00014
-8.0	-0.00046	-0.00042	-0.00038	-0.00035	-0.00032	-0.00029	-0.00027	-0.00024	-0.00022	-0.00020	-0.00019	-0.00017	-0.00016	-0.00015	-0.00014
-7.5	-0.00047	-0.00043	-0.00039	-0.00035	-0.00032	-0.00029	-0.00027	-0.00024	-0.00022	-0.00020	-0.00019	-0.00017	-0.00016	-0.00014	-0.00013
-7.0	-0.00049	-0.00044	-0.00039	-0.00036	-0.00032	-0.00029	-0.00026	-0.00024	-0.00022	-0.00020	-0.00018	-0.00017	-0.00015	-0.00014	-0.00013
-6.5	-0.00050	-0.00044	-0.00040	-0.00036	-0.00032	-0.00029	-0.00026	-0.00024	-0.00022	-0.00021	-0.00019	-0.00018	-0.00016	-0.00015	-0.00014
-6.0	-0.00050	-0.00045	-0.00040	-0.00035	-0.00032	-0.00028	-0.00025	-0.00023	-0.00021	-0.00019	-0.00017	-0.00016	-0.00014	-0.00013	-0.00012
-5.5	-0.00050	-0.00044	-0.00039	-0.00035	-0.00031	-0.00028	-0.00025	-0.00022	-0.00020	-0.00018	-0.00016	-0.00015	-0.00014	-0.00012	-0.00011
-5.0	-0.00050	-0.00044	-0.00038	-0.00034	-0.00030	-0.00027	-0.00024	-0.00021	-0.00019	-0.00017	-0.00015	-0.00014	-0.00013	-0.00012	-0.00011
-4.5	-0.00049	-0.00042	-0.00037	-0.00032	-0.00029	-0.00025	-0.00022	-0.00020	-0.00018	-0.00016	-0.00014	-0.00013	-0.00012	-0.00011	-0.00010
-4.0	-0.00047	-0.00040	-0.00035	-0.00031	-0.00027	-0.00024	-0.00021	-0.00019	-0.00017	-0.00015	-0.00013	-0.00012	-0.00011	-0.00010	-0.00009
-3.5	-0.00044	-0.00038	-0.00033	-0.00028	-0.00025	-0.00022	-0.00019	-0.00017	-0.00015	-0.00013	-0.00012	-0.00011	-0.00010	-0.00009	-0.00008
-3.0	-0.00040	-0.00034	-0.00029	-0.00025	-0.00022	-0.00019	-0.00017	-0.00015	-0.00013	-0.00012	-0.00011	-0.00009	-0.00009	-0.00008	-0.00007
-2.5	-0.00036	-0.00030	-0.00026	-0.00022	-0.00019	-0.00017	-0.00015	-0.00013	-0.00011	-0.00010	-0.00009	-0.00008	-0.00007	-0.00007	-0.00006
-2.0	-0.00030	-0.00025	-0.00021	-0.00018	-0.00016	-0.00014	-0.00012	-0.00011	-0.00009	-0.00008	-0.00007	-0.00007	-0.00006	-0.00005	-0.00005
-1.5	-0.00023	-0.00020	-0.00017	-0.00014	-0.00012	-0.00011	-0.00009	-0.00008	-0.00007	-0.00006	-0.00005	-0.00004	-0.00004	-0.00004	-0.00004
-1.0	-0.00016	-0.00013	-0.00011	-0.00010	-0.00008	-0.00007	-0.00006	-0.00005	-0.00005	-0.00004	-0.00003	-0.00003	-0.00003	-0.00002	-0.00002
-0.5	-0.00008	-0.00007	-0.00006	-0.00005	-0.00004	-0.00003	-0.00002	-0.00002	-0.00002	-0.00002	-0.00001	-0.00001	-0.00001	-0.00001	-0.00001
0.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
.5	0.00008	0.00007	0.00006	0.00005	0.00004	0.00004	0.00003	0.00003	0.00002	0.00002	0.00002	0.00002	0.00001	0.00001	0.00001
1.0	0.00016	0.00013	0.00011	0.00010	0.00008	0.00007	0.00006	0.00005	0.00004	0.00004	0.00003	0.00003	0.00002	0.00002	0.00002
1.5	0.00023	0.00020	0.00017	0.00014	0.00012	0.00011	0.00009	0.00008	0.00007	0.00006	0.00005	0.00004	0.00004	0.00004	0.00004
2.0	0.00030	0.00025	0.00021	0.00018	0.00016	0.00014	0.00012	0.00011	0.00009	0.00008	0.00007	0.00007	0.00006	0.00005	0.00005
2.5	0.00036	0.00030	0.00026	0.00022	0.00019	0.00017	0.00015	0.00013	0.00011	0.00010	0.00009	0.00008	0.00007	0.00007	0.00006
3.0	0.00040	0.00034	0.00029	0.00025	0.00022	0.00019	0.00017	0.00015	0.00013	0.00012	0.00011	0.00009	0.00009	0.00008	0.00007
3.5	0.00044	0.00038	0.00033	0.00028	0.00025	0.00022	0.00019	0.00017	0.00015	0.00013	0.00012	0.00011	0.00010	0.00009	0.00008
4.0	0.00047	0.00040	0.00035	0.00031	0.00027	0.00024	0.00021	0.00019	0.00017	0.00015	0.00013	0.00012	0.00011	0.00010	0.00009
4.5	0.00049	0.00042	0.00037	0.00032	0.00029	0.00025	0.00022	0.00020	0.00018	0.00016	0.00013	0.00012	0.00011	0.00010	0.00009
5.0	0.00050	0.00044	0.00038	0.00034	0.00030	0.00027	0.00024	0.00021	0.00019	0.00017	0.00015	0.00014	0.00013	0.00012	0.00011
5.5	0.00050	0.00044	0.00039	0.00035	0.00031	0.00028	0.00025	0.00022	0.00020	0.00018	0.00016	0.00015	0.00014	0.00012	0.00011
6.0	0.00050	0.00045	0.00040	0.00035	0.00032	0.00028	0.00025	0.00023	0.00021	0.00019	0.00017	0.00016	0.00014	0.00013	0.00012
6.5	0.00050	0.00044	0.00040	0.00036	0.00032	0.00029	0.00026	0.00024	0.00021	0.00019	0.00018	0.00016	0.00015	0.00014	0.00012
7.0	0.00049	0.00044	0.00039	0.00036	0.00032	0.00029	0.00026	0.00024	0.00020	0.00018	0.00017	0.00015	0.00014	0.00013	0.00012
7.5	0.00047	0.00043	0.00039	0.00035	0.00032	0.00029	0.00027	0.00024	0.00022	0.00020	0.00019	0.00017	0.00016	0.00014	0.00013
8.0	0.00046	0.00042	0.00038	0.00035	0.00032	0.00029	0.00027	0.00024	0.00022	0.00020	0.00019	0.00017	0.00016	0.00015	0.00014
8.5	0.00045	0.00041	0.00037	0.00034	0.00031	0.00029	0.00026	0.00024	0.00022	0.00021	0.00019	0.00017	0.00016	0.00015	0.00014
9.0	0.00043	0.00040	0.00036	0.00034	0.00031	0.00028	0.00026	0.00024	0.00022	0.00021	0.00019	0.00018	0.00016	0.00015	0.00014
9.5	0.00041	0.00038	0.00035	0.00033	0.00030	0.00028	0.00026	0.00024	0.00022	0.00020	0.00019	0.00018	0.00016	0.00015	0.00014

TABLE I. - Continued. NONDIMENSIONAL AXIAL FIELD COMPONENT h_z

(b) Increments in axial and radial coordinates, 0.1

Axial coordinate, z	Radial coordinate, r															
	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
-5.0	0.99672	0.89673	0.79673	0.69674	0.59675	0.49677	0.39679	0.29682	0.19684	0.09687	-0.00309	-0.00306	-0.00302	-0.00298	-0.00294	-0.00289
-4.9	0.99659	0.89659	0.79660	0.69661	0.59662	0.49664	0.39666	0.29669	0.19672	0.09675	-0.00321	-0.00317	-0.00313	-0.00309	-0.00304	-0.00299
-4.8	0.99645	0.89645	0.79646	0.69647	0.59649	0.49651	0.39653	0.29656	0.19659	0.09662	-0.00334	-0.00330	-0.00325	-0.00320	-0.00315	-0.00310
-4.7	0.99630	0.89630	0.79631	0.69632	0.59634	0.49636	0.39639	0.29662	0.19645	0.09649	-0.00347	-0.00343	-0.00338	-0.00333	-0.00327	-0.00322
-4.6	0.99614	0.89615	0.79615	0.69617	0.59618	0.49621	0.39623	0.29627	0.19630	0.09635	-0.00361	-0.00356	-0.00351	-0.00345	-0.00340	-0.00334
-4.5	0.99597	0.89598	0.79598	0.69600	0.59602	0.49604	0.39607	0.29611	0.19615	0.09619	-0.00376	-0.00371	-0.00365	-0.00359	-0.00353	-0.00346
-4.4	0.99579	0.89580	0.79580	0.69582	0.59584	0.49587	0.39590	0.29594	0.19598	0.09603	-0.00392	-0.00386	-0.00380	-0.00373	-0.00367	-0.00359
-4.3	0.99560	0.89560	0.79561	0.69563	0.59565	0.49568	0.39572	0.29576	0.19581	0.09586	-0.00408	-0.00402	-0.00395	-0.00388	-0.00381	-0.00373
-4.2	0.99539	0.89540	0.79541	0.69543	0.59545	0.49548	0.39552	0.29557	0.19562	0.09568	-0.00426	-0.00419	-0.00412	-0.00404	-0.00397	-0.00388
-4.1	0.99517	0.89517	0.79519	0.69521	0.59523	0.49527	0.39531	0.29536	0.19542	0.09548	-0.00445	-0.00438	-0.00430	-0.00421	-0.00413	-0.00404
-4.0	0.99493	0.89494	0.79495	0.69497	0.59500	0.49504	0.39509	0.29514	0.19521	0.09527	-0.00465	-0.00457	-0.00448	-0.00439	-0.00430	-0.00420
-3.9	0.99468	0.89468	0.79470	0.69472	0.59475	0.49480	0.39485	0.29491	0.19498	0.09505	-0.00487	-0.00478	-0.00468	-0.00459	-0.00448	-0.00438
-3.8	0.99440	0.89441	0.79442	0.69445	0.59449	0.49453	0.39459	0.29466	0.19473	0.09481	-0.00510	-0.00500	-0.00490	-0.00479	-0.00468	-0.00456
-3.7	0.99410	0.89411	0.79413	0.69416	0.59420	0.49425	0.39431	0.29439	0.19447	0.09456	-0.00534	-0.00524	-0.00512	-0.00501	-0.00488	-0.00476
-3.6	0.99378	0.89379	0.79381	0.69384	0.59389	0.49395	0.39402	0.29410	0.19419	0.09429	-0.00560	-0.00549	-0.00536	-0.00524	-0.00510	-0.00496
-3.5	0.99344	0.89344	0.79346	0.69350	0.59355	0.49362	0.39369	0.29378	0.19388	0.09399	-0.00589	-0.00576	-0.00562	-0.00548	-0.00533	-0.00518
-3.4	0.99306	0.89307	0.79309	0.69313	0.59319	0.49326	0.39335	0.29344	0.19356	0.09368	-0.00619	-0.00605	-0.00590	-0.00574	-0.00558	-0.00541
-3.3	0.99265	0.89266	0.79268	0.69273	0.59279	0.49287	0.39297	0.29308	0.19320	0.09334	-0.00651	-0.00636	-0.00619	-0.00602	-0.00584	-0.00566
-3.2	0.99220	0.89221	0.79224	0.69229	0.59236	0.49245	0.39256	0.29268	0.19282	0.09297	-0.00686	-0.00669	-0.00651	-0.00632	-0.00612	-0.00592
-3.1	0.99171	0.89172	0.79176	0.69181	0.59189	0.49199	0.39211	0.29225	0.19241	0.09258	-0.00724	-0.00705	-0.00684	-0.00663	-0.00642	-0.00620
-3.0	0.99117	0.89119	0.79123	0.69129	0.59138	0.49149	0.39163	0.29179	0.19196	0.09215	-0.00765	-0.00743	-0.00721	-0.00697	-0.00673	-0.00649
-2.9	0.99059	0.89060	0.79065	0.69072	0.59082	0.49095	0.39110	0.29128	0.19147	0.09168	-0.00809	-0.00785	-0.00759	-0.00734	-0.00707	-0.00680
-2.8	0.98994	0.88995	0.79001	0.69009	0.59020	0.49035	0.39052	0.29072	0.19094	0.09118	-0.00856	-0.00829	-0.00801	-0.00772	-0.00743	-0.00713
-2.7	0.98922	0.88924	0.78930	0.68939	0.58952	0.48969	0.38989	0.29011	0.19036	0.09063	-0.00908	-0.00878	-0.00846	-0.00814	-0.00781	-0.00748
-2.6	0.98843	0.88845	0.78852	0.68862	0.58877	0.48896	0.38919	0.28944	0.18973	0.09003	-0.00964	-0.00930	-0.00894	-0.00858	-0.00822	-0.00786
-2.5	0.98754	0.88757	0.78765	0.68777	0.58794	0.48816	0.38842	0.28871	0.18903	0.08938	-0.01025	-0.00986	-0.00947	-0.00906	-0.00865	-0.00825
-2.4	0.98656	0.88659	0.78668	0.68682	0.58702	0.48727	0.38756	0.28790	0.18827	0.08867	-0.01091	-0.01047	-0.01003	-0.00957	-0.00912	-0.00866
-2.3	0.98545	0.88548	0.78559	0.68576	0.58599	0.48628	0.38662	0.28700	0.18743	0.08788	-0.01164	-0.01114	-0.01063	-0.01012	-0.00961	-0.00910
-2.2	0.98421	0.88425	0.78437	0.68457	0.58484	0.48517	0.38557	0.28601	0.18650	0.08703	-0.01242	-0.01186	-0.01128	-0.01070	-0.01013	-0.00956
-2.1	0.98281	0.88285	0.78299	0.68322	0.58354	0.48393	0.38439	0.28491	0.18548	0.08608	-0.01329	-0.01264	-0.01198	-0.01133	-0.01068	-0.01005
-2.0	0.98121	0.88127	0.78143	0.68170	0.58208	0.48254	0.38308	0.28368	0.18434	0.08504	-0.01423	-0.01349	-0.01274	-0.01200	-0.01127	-0.01056
-1.9	0.97939	0.87946	0.77966	0.67998	0.58042	0.48096	0.38160	0.28231	0.18308	0.08389	-0.01526	-0.01441	-0.01355	-0.01271	-0.01188	-0.01108
-1.8	0.97731	0.87739	0.77762	0.67801	0.57853	0.47918	0.37993	0.28077	0.18167	0.08263	-0.01640	-0.01541	-0.01442	-0.01346	-0.01253	-0.01163
-1.7	0.97490	0.87500	0.77528	0.67575	0.57637	0.47715	0.37804	0.27904	0.18011	0.08122	-0.01763	-0.01649	-0.01536	-0.01426	-0.01320	-0.01219
-1.6	0.97211	0.87223	0.77257	0.67313	0.57389	0.47482	0.37590	0.27708	0.17835	0.07967	-0.01899	-0.01766	-0.01636	-0.01510	-0.01389	-0.01276
-1.5	0.96886	0.86900	0.76942	0.67010	0.57102	0.47215	0.37345	0.27487	0.17639	0.07795	-0.02048	-0.01892	-0.01741	-0.01597	-0.01460	-0.01333
-1.4	0.96503	0.86521	0.76572	0.66656	0.56769	0.46907	0.37064	0.27236	0.17418	0.07604	-0.02210	-0.02028	-0.01853	-0.01687	-0.01532	-0.01388
-1.3	0.96050	0.86072	0.76136	0.66240	0.56379	0.46549	0.36741	0.26951	0.17170	0.07392	-0.02387	-0.02173	-0.01970	-0.01779	-0.01603	-0.01441
-1.2	0.95509	0.85536	0.75617	0.65747	0.55920	0.46130	0.36368	0.26624	0.16890	0.07159	-0.02579	-0.02327	-0.02090	-0.01870	-0.01670	-0.01489
-1.1	0.94858	0.84893	0.74995	0.65158	0.55376	0.45639	0.35934	0.26250	0.16576	0.06900	-0.02785	-0.02487	-0.02211	-0.01959	-0.01732	-0.01530
-1.0	0.94069	0.84113	0.74242	0.64451	0.54727	0.45058	0.35428	0.25821	0.16222	0.06617	-0.03005	-0.02652	-0.02330	-0.02040	-0.01784	-0.01559
-0.9	0.93101	0.83158	0.73325	0.63592	0.53946	0.44367	0.34834	0.25326	0.15823	0.06307	-0.03236	-0.02817	-0.02441	-0.02109	-0.01821	-0.01573
-0.8	0.91904	0.81978	0.72195	0.62542	0.52999	0.43539	0.34135	0.24756	0.15377	0.05973	-0.03473	-0.02975	-0.02536	-0.02158	-0.01836	-0.01566
-0.7	0.90407	0.80504	0.70790	0.61246	0.51841	0.42541	0.33307	0.24098	0.14879	0.05619	-0.03708	-0.03114	-0.02604	-0.02176	-0.01822	-0.01531
-0.6	0.88054	0.78644	0.69026	0.59629	0.50414	0.41328	0.32338	0.14329	0.05252	0.05292	-0.03924	-0.03217	-0.02629	-0.02151	-0.01767	-0.01461
-0.5	0.86091	0.76268	0.66784	0.57595	0.48638	0.39844	0.31141	0.22458	0.13728	0.04890	-0.04098	-0.03258	-0.02587	-0.02063	-0.01659	-0.01347
-0.4	0.82945	0.73192	0.63906	0.55011	0.46414	0.38015	0.29721	0.21440	0.13082	0.04561	-0.04189	-0.03196	-0.02445	-0.01890	-0.01483	-0.01182
-0.3	0.78783	0.69144	0.60164	0.51703	0.43608	0.35745	0.27998	0.20256	0.12404	0.04315	-0.04126	-0.02964	-0.02159	-0.01608	-0.01228	-0.00960
-0.2	0.73124	0.63695	0.55239	0.47443	0.40059	0.32916	0.25888	0.18861	0.11704	0.04235	-0.03578	-0.02463	-0.01672	-0.01193	-0.00887	-0.00681
-0.1	0.64991	0.56102	0.48690	0.41964	0.35583	0.29385	0.23273	0.17165	0.10959	0.04456	-0.02862	-0.01517	-0.00939	-0.00643	-0.00467	-0.00354

0.0	0.50000	0.45000	0.40000	0.35000	0.30000	0.25000	0.20000	0.15000	0.10000	0.05000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
.1	0.35009	0.33898	0.31310	0.28036	0.24417	0.20614	0.16727	0.12835	0.09041	0.05544	0.02862	0.01517	0.00939	0.00663	0.00467	0.00354	
.2	0.26876	0.26305	0.24761	0.22557	0.19941	0.17084	0.14112	0.11139	0.08296	0.05765	0.03780	0.02463	0.01672	0.01193	0.00887	0.00681	
.3	0.21217	0.20856	0.19836	0.18297	0.16392	0.14255	0.12002	0.09744	0.07596	0.05685	0.04126	0.02966	0.02159	0.01608	0.01228	0.00960	
.4	0.17055	0.16808	0.16094	0.14989	0.13586	0.11985	0.10279	0.08560	0.06918	0.05439	0.04189	0.03196	0.02445	0.01890	0.01483	0.01182	
0.5	0.13909	0.13732	0.13216	0.12405	0.11362	0.10156	0.08859	0.07542	0.06272	0.05110	0.04098	0.03258	0.02587	0.02063	0.01659	0.01347	
.6	0.11486	0.11356	0.10974	0.10371	0.09586	0.08672	0.07679	0.06662	0.05671	0.04748	0.03924	0.03217	0.02629	0.02151	0.01767	0.01461	
.7	0.09593	0.09496	0.09210	0.08754	0.08159	0.07459	0.06693	0.05902	0.05121	0.04381	0.03708	0.03114	0.02604	0.02176	0.01822	0.01531	
.8	0.08096	0.08022	0.07805	0.07458	0.07001	0.06461	0.05865	0.05244	0.04623	0.04027	0.03473	0.02975	0.02536	0.02158	0.01836	0.01566	
.9	0.06899	0.06842	0.06675	0.06408	0.06054	0.05633	0.05166	0.04674	0.04177	0.03693	0.03236	0.02817	0.02441	0.02109	0.01821	0.01573	
1.0	0.05931	0.05887	0.05758	0.05549	0.05273	0.04942	0.04572	0.04179	0.03778	0.03383	0.03005	0.02652	0.02330	0.02040	0.01784	0.01559	
1.1	0.05142	0.05107	0.05005	0.04842	0.04624	0.04361	0.04066	0.03750	0.03424	0.03100	0.02785	0.02487	0.02211	0.01959	0.01732	0.01530	
1.2	0.04491	0.04464	0.04383	0.04253	0.04080	0.03870	0.03632	0.03376	0.03110	0.02841	0.02579	0.02327	0.02090	0.01870	0.01670	0.01489	
1.3	0.03950	0.03928	0.03864	0.03760	0.03621	0.03451	0.03259	0.03049	0.02830	0.02608	0.02387	0.02173	0.01970	0.01779	0.01603	0.01441	
1.4	0.03497	0.03479	0.03428	0.03344	0.03231	0.03093	0.02936	0.02764	0.02582	0.02396	0.02210	0.02028	0.01853	0.01687	0.01532	0.01388	
1.5	0.03114	0.03100	0.03058	0.02990	0.02898	0.02785	0.02655	0.02513	0.02361	0.02205	0.02048	0.01892	0.01741	0.01597	0.01460	0.01333	
1.6	0.02789	0.02777	0.02743	0.02687	0.02611	0.02518	0.02410	0.02292	0.02165	0.02033	0.01899	0.01766	0.01636	0.01510	0.01389	0.01276	
1.7	0.02510	0.02500	0.02472	0.02425	0.02363	0.02285	0.02196	0.02096	0.01989	0.01878	0.01763	0.01649	0.01536	0.01426	0.01320	0.01219	
1.8	0.02269	0.02261	0.02238	0.02199	0.02147	0.02082	0.02007	0.01923	0.01833	0.01737	0.01640	0.01541	0.01442	0.01346	0.01253	0.01163	
1.9	0.02061	0.02054	0.02034	0.02002	0.01958	0.01904	0.01840	0.01769	0.01692	0.01611	0.01526	0.01441	0.01355	0.01271	0.01188	0.01108	
2.0	0.01879	0.01873	0.01857	0.01830	0.01792	0.01746	0.01692	0.01632	0.01566	0.01496	0.01423	0.01349	0.01274	0.01200	0.01127	0.01056	
2.1	0.01719	0.01715	0.01701	0.01678	0.01646	0.01607	0.01561	0.01509	0.01452	0.01392	0.01329	0.01264	0.01198	0.01133	0.01068	0.01005	
2.2	0.01579	0.01575	0.01563	0.01543	0.01516	0.01483	0.01443	0.01399	0.01350	0.01297	0.01242	0.01186	0.01128	0.01070	0.01013	0.00956	
2.3	0.01455	0.01451	0.01441	0.01424	0.01401	0.01372	0.01338	0.01300	0.01257	0.01212	0.01164	0.01114	0.01063	0.01012	0.00961	0.00910	
2.4	0.01344	0.01341	0.01332	0.01318	0.01298	0.01273	0.01244	0.01210	0.01173	0.01133	0.01091	0.01047	0.01003	0.00957	0.00912	0.00866	
2.5	0.01246	0.01243	0.01235	0.01223	0.01206	0.01184	0.01158	0.01129	0.01097	0.01062	0.01025	0.00986	0.00947	0.00906	0.00865	0.00825	
2.6	0.01157	0.01155	0.01148	0.01138	0.01123	0.01104	0.01081	0.01056	0.01027	0.00997	0.00964	0.00930	0.00894	0.00858	0.00822	0.00786	
2.7	0.01078	0.01076	0.01070	0.01061	0.01047	0.01031	0.01011	0.00989	0.00964	0.00937	0.00908	0.00878	0.00846	0.00814	0.00781	0.00748	
2.8	0.01006	0.01005	0.00999	0.00991	0.00980	0.00965	0.00948	0.00928	0.00906	0.00882	0.00856	0.00829	0.00801	0.00772	0.00743	0.00713	
2.9	0.00941	0.00940	0.00935	0.00928	0.00918	0.00905	0.00890	0.00872	0.00853	0.00832	0.00809	0.00785	0.00759	0.00734	0.00707	0.00680	
3.0	0.00883	0.00881	0.00877	0.00871	0.00862	0.00850	0.00837	0.00821	0.00804	0.00785	0.00765	0.00743	0.00721	0.00697	0.00673	0.00649	
3.1	0.00829	0.00828	0.00824	0.00819	0.00811	0.00801	0.00789	0.00775	0.00759	0.00742	0.00724	0.00705	0.00684	0.00663	0.00642	0.00620	
3.2	0.00780	0.00779	0.00776	0.00771	0.00764	0.00755	0.00744	0.00732	0.00718	0.00703	0.00686	0.00669	0.00651	0.00632	0.00612	0.00592	
3.3	0.00735	0.00734	0.00732	0.00727	0.00721	0.00713	0.00703	0.00692	0.00680	0.00666	0.00651	0.00636	0.00619	0.00602	0.00584	0.00566	
3.4	0.00694	0.00693	0.00681	0.00687	0.00681	0.00674	0.00665	0.00656	0.00644	0.00632	0.00619	0.00605	0.00590	0.00574	0.00558	0.00541	
3.5	0.00656	0.00656	0.00654	0.00650	0.00645	0.00638	0.00631	0.00622	0.00612	0.00601	0.00589	0.00576	0.00562	0.00548	0.00533	0.00518	
3.6	0.00622	0.00622	0.00621	0.00619	0.00616	0.00611	0.00605	0.00598	0.00590	0.00581	0.00571	0.00560	0.00549	0.00536	0.00524	0.00510	0.00496
3.7	0.00590	0.00589	0.00587	0.00584	0.00580	0.00575	0.00569	0.00561	0.00553	0.00544	0.00534	0.00524	0.00512	0.00501	0.00488	0.00476	
3.8	0.00560	0.00559	0.00558	0.00555	0.00551	0.00547	0.00541	0.00534	0.00527	0.00519	0.00510	0.00500	0.00490	0.00479	0.00468	0.00456	
3.9	0.00532	0.00532	0.00530	0.00528	0.00525	0.00520	0.00515	0.00509	0.00502	0.00495	0.00487	0.00478	0.00468	0.00459	0.00448	0.00438	
4.0	0.00507	0.00506	0.00505	0.00503	0.00500	0.00496	0.00491	0.00486	0.00479	0.00473	0.00465	0.00457	0.00448	0.00439	0.00430	0.00420	
4.1	0.00483	0.00483	0.00481	0.00479	0.00477	0.00473	0.00469	0.00464	0.00458	0.00452	0.00445	0.00438	0.00430	0.00421	0.00413	0.00404	
4.2	0.00461	0.00460	0.00459	0.00457	0.00455	0.00452	0.00448	0.00443	0.00438	0.00432	0.00426	0.00419	0.00412	0.00404	0.00397	0.00388	
4.3	0.00440	0.00440	0.00439	0.00437	0.00435	0.00432	0.00428	0.00424	0.00419	0.00414	0.00408	0.00402	0.00395	0.00388	0.00381	0.00373	
4.4	0.00421	0.00420	0.00420	0.00418	0.00416	0.00413	0.00410	0.00406	0.00402	0.00397	0.00392	0.00386	0.00380	0.00373	0.00367	0.00359	
4.5	0.00403	0.00402	0.00402	0.00400	0.00398	0.00396	0.00393	0.00389	0.00385	0.00381	0.00376	0.00371	0.00365	0.00359	0.00353	0.00346	
4.6	0.00386	0.00385	0.00383	0.00383	0.00382	0.00379	0.00376	0.00373	0.00370	0.00365	0.00361	0.00356	0.00351	0.00345	0.00340	0.00334	
4.7	0.00370	0.00370	0.00369	0.00368	0.00366	0.00364	0.00361	0.00358	0.00355	0.00351	0.00347	0.00343	0.00338	0.00333	0.00327	0.00322	
4.8	0.00355	0.00355	0.00354	0.00353	0.00351	0.00349	0.00347	0.00344	0.00341	0.00338	0.00334	0.00330	0.00325	0.00320	0.00315	0.00310	
4.9	0.00341	0.00341	0.00340	0.00339	0.00338	0.00336	0.00334	0.00331	0.00328	0.00325	0.00321	0.00317	0.00313	0.00309	0.00304	0.00299	
5.0	0.00328	0.00327	0.00327	0.00326	0.00325	0.00323	0.00321	0.00318	0.00316	0.00313	0.00309	0.00306	0.00302	0.00298	0.00294	0.00289	

TABLE I. - Continued. NONDIMENSIONAL AXIAL FIELD COMPONENT h_z
(b) Continued. Increments in axial and radial coordinates, 0.1

Axial coordinate, z	Radial coordinate, r															
	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	
-5.0	-0.00284	-0.00280	-0.00275	-0.00269	-0.00264	-0.00259	-0.00253	-0.00248	-0.00242	-0.00237	-0.00231	-0.00226	-0.00220	-0.00215	-0.00209	
-4.9	-0.00294	-0.00289	-0.00284	-0.00278	-0.00273	-0.00267	-0.00261	-0.00255	-0.00249	-0.00244	-0.00238	-0.00232	-0.00226	-0.00220	-0.00214	
-4.8	-0.00305	-0.00299	-0.00293	-0.00288	-0.00282	-0.00275	-0.00269	-0.00263	-0.00257	-0.00251	-0.00244	-0.00238	-0.00232	-0.00226	-0.00220	
-4.7	-0.00316	-0.00310	-0.00304	-0.00297	-0.00291	-0.00284	-0.00278	-0.00271	-0.00264	-0.00258	-0.00251	-0.00245	-0.00238	-0.00231	-0.00225	
-4.6	-0.00327	-0.00321	-0.00314	-0.00307	-0.00300	-0.00294	-0.00286	-0.00279	-0.00272	-0.00265	-0.00258	-0.00251	-0.00244	-0.00237	-0.00231	
-4.5	-0.00339	-0.00332	-0.00325	-0.00318	-0.00311	-0.00303	-0.00296	-0.00288	-0.00281	-0.00273	-0.00265	-0.00258	-0.00251	-0.00243	-0.00236	
-4.4	-0.00352	-0.00345	-0.00337	-0.00329	-0.00321	-0.00313	-0.00305	-0.00297	-0.00289	-0.00281	-0.00273	-0.00265	-0.00257	-0.00250	-0.00242	
-4.3	-0.00366	-0.00357	-0.00349	-0.00341	-0.00332	-0.00324	-0.00315	-0.00306	-0.00298	-0.00289	-0.00281	-0.00272	-0.00264	-0.00256	-0.00248	
-4.2	-0.00380	-0.00371	-0.00362	-0.00353	-0.00344	-0.00335	-0.00325	-0.00316	-0.00307	-0.00298	-0.00289	-0.00280	-0.00271	-0.00262	-0.00254	
-4.1	-0.00395	-0.00385	-0.00376	-0.00366	-0.00356	-0.00346	-0.00336	-0.00326	-0.00316	-0.00307	-0.00297	-0.00287	-0.00278	-0.00269	-0.00260	
-4.0	-0.00410	-0.00400	-0.00390	-0.00379	-0.00368	-0.00358	-0.00347	-0.00337	-0.00326	-0.00316	-0.00305	-0.00295	-0.00285	-0.00276	-0.00266	
-3.9	-0.00427	-0.00416	-0.00405	-0.00393	-0.00382	-0.00370	-0.00359	-0.00347	-0.00336	-0.00325	-0.00314	-0.00303	-0.00293	-0.00282	-0.00272	
-3.8	-0.00444	-0.00432	-0.00420	-0.00408	-0.00395	-0.00383	-0.00371	-0.00359	-0.00346	-0.00335	-0.00323	-0.00312	-0.00300	-0.00289	-0.00279	
-3.7	-0.00463	-0.00450	-0.00436	-0.00423	-0.00410	-0.00396	-0.00383	-0.00370	-0.00357	-0.00345	-0.00332	-0.00320	-0.00308	-0.00296	-0.00285	
-3.6	-0.00482	-0.00468	-0.00454	-0.00439	-0.00425	-0.00410	-0.00396	-0.00382	-0.00368	-0.00355	-0.00341	-0.00328	-0.00316	-0.00303	-0.00292	
-3.5	-0.00503	-0.00487	-0.00472	-0.00456	-0.00440	-0.00425	-0.00410	-0.00394	-0.00380	-0.00365	-0.00351	-0.00337	-0.00324	-0.00311	-0.00298	
-3.4	-0.00525	-0.00508	-0.00491	-0.00474	-0.00457	-0.00440	-0.00423	-0.00407	-0.00391	-0.00376	-0.00361	-0.00346	-0.00332	-0.00318	-0.00304	
-3.3	-0.00548	-0.00529	-0.00511	-0.00492	-0.00474	-0.00456	-0.00438	-0.00420	-0.00403	-0.00386	-0.00370	-0.00355	-0.00339	-0.00325	-0.00311	
-3.2	-0.00572	-0.00552	-0.00531	-0.00511	-0.00491	-0.00472	-0.00452	-0.00434	-0.00415	-0.00397	-0.00380	-0.00364	-0.00347	-0.00332	-0.00317	
-3.1	-0.00598	-0.00575	-0.00553	-0.00531	-0.00510	-0.00488	-0.00468	-0.00447	-0.00428	-0.00409	-0.00390	-0.00372	-0.00355	-0.00339	-0.00323	
-3.0	-0.00625	-0.00600	-0.00576	-0.00552	-0.00529	-0.00506	-0.00483	-0.00461	-0.00440	-0.00420	-0.00400	-0.00381	-0.00363	-0.00346	-0.00329	
-2.9	-0.00645	-0.00627	-0.00600	-0.00574	-0.00549	-0.00524	-0.00499	-0.00476	-0.00453	-0.00431	-0.00410	-0.00390	-0.00371	-0.00353	-0.00335	
-2.8	-0.00664	-0.00654	-0.00625	-0.00597	-0.00569	-0.00542	-0.00516	-0.00490	-0.00466	-0.00442	-0.00420	-0.00399	-0.00378	-0.00359	-0.00341	
-2.7	-0.00716	-0.00683	-0.00651	-0.00620	-0.00590	-0.00560	-0.00532	-0.00505	-0.00479	-0.00454	-0.00430	-0.00407	-0.00385	-0.00365	-0.00346	
-2.6	-0.00749	-0.00714	-0.00679	-0.00644	-0.00611	-0.00579	-0.00549	-0.00519	-0.00491	-0.00465	-0.00439	-0.00415	-0.00392	-0.00371	-0.00350	
-2.5	-0.00785	-0.00745	-0.00707	-0.00669	-0.00633	-0.00599	-0.00566	-0.00534	-0.00504	-0.00475	-0.00448	-0.00423	-0.00399	-0.00376	-0.00355	
-2.4	-0.00822	-0.00778	-0.00736	-0.00695	-0.00656	-0.00618	-0.00582	-0.00548	-0.00516	-0.00485	-0.00457	-0.00430	-0.00404	-0.00381	-0.00358	
-2.3	-0.00861	-0.00812	-0.00766	-0.00721	-0.00678	-0.00637	-0.00599	-0.00562	-0.00528	-0.00495	-0.00465	-0.00446	-0.00420	-0.00398	-0.00361	
-2.2	-0.00901	-0.00848	-0.00797	-0.00748	-0.00701	-0.00657	-0.00615	-0.00576	-0.00539	-0.00504	-0.00472	-0.00442	-0.00414	-0.00388	-0.00363	
-2.1	-0.00943	-0.00884	-0.00828	-0.00774	-0.00723	-0.00675	-0.00630	-0.00588	-0.00549	-0.00512	-0.00478	-0.00446	-0.00417	-0.00390	-0.00364	
-2.0	-0.00987	-0.00922	-0.00859	-0.00801	-0.00745	-0.00693	-0.00645	-0.00600	-0.00558	-0.00519	-0.00483	-0.00450	-0.00419	-0.00391	-0.00365	
-1.9	-0.01032	-0.00959	-0.00891	-0.00827	-0.00766	-0.00710	-0.00658	-0.00610	-0.00566	-0.00525	-0.00487	-0.00452	-0.00420	-0.00391	-0.00363	
-1.8	-0.01078	-0.00997	-0.00922	-0.00852	-0.00786	-0.00726	-0.00670	-0.00619	-0.00572	-0.00528	-0.00489	-0.00453	-0.00419	-0.00389	-0.00361	
-1.7	-0.01124	-0.01035	-0.00952	-0.00875	-0.00804	-0.00739	-0.00680	-0.00625	-0.00576	-0.00530	-0.00489	-0.00451	-0.00417	-0.00386	-0.00357	
-1.6	-0.01170	-0.01071	-0.00989	-0.00920	-0.00875	-0.00820	-0.00750	-0.00687	-0.00630	-0.00577	-0.00530	-0.00487	-0.00448	-0.00413	-0.00381	-0.00352
-1.5	-0.01214	-0.01105	-0.01006	-0.00915	-0.00833	-0.00758	-0.00691	-0.00631	-0.00576	-0.00527	-0.00483	-0.00443	-0.00407	-0.00374	-0.00345	
-1.4	-0.01257	-0.01136	-0.01028	-0.00930	-0.00842	-0.00762	-0.00692	-0.00628	-0.00572	-0.00521	-0.00475	-0.00435	-0.00398	-0.00365	-0.00336	
-1.3	-0.01295	-0.01163	-0.01045	-0.00939	-0.00845	-0.00762	-0.00688	-0.00622	-0.00563	-0.00511	-0.00465	-0.00424	-0.00387	-0.00354	-0.00325	
-1.2	-0.01327	-0.01183	-0.01055	-0.00942	-0.00843	-0.00756	-0.00679	-0.00611	-0.00551	-0.00498	-0.00452	-0.00410	-0.00374	-0.00341	-0.00312	
-1.1	-0.01351	-0.01194	-0.01057	-0.00938	-0.00834	-0.00743	-0.00664	-0.00595	-0.00534	-0.00481	-0.00434	-0.00393	-0.00357	-0.00325	-0.00297	
-1.0	-0.01364	-0.01195	-0.01049	-0.00924	-0.00816	-0.00722	-0.00642	-0.00572	-0.00512	-0.00459	-0.00413	-0.00373	-0.00338	-0.00307	-0.00279	
-9.	-0.01361	-0.01181	-0.01028	-0.00898	-0.00788	-0.00694	-0.00613	-0.00544	-0.00484	-0.00433	-0.00388	-0.00349	-0.00315	-0.00286	-0.00259	
-8.	-0.01339	-0.01150	-0.00992	-0.00860	-0.00749	-0.00655	-0.00576	-0.00509	-0.00451	-0.00402	-0.00359	-0.00322	-0.00290	-0.00262	-0.00238	
-7.	-0.01293	-0.01098	-0.00938	-0.00806	-0.00697	-0.00607	-0.00530	-0.00466	-0.00412	-0.00365	-0.00326	-0.00291	-0.00262	-0.00236	-0.00213	
-6.	-0.01217	-0.01022	-0.00864	-0.00737	-0.00633	-0.00547	-0.00476	-0.00417	-0.00367	-0.00324	-0.00288	-0.00257	-0.00231	-0.00207	-0.00187	
-5.	-0.01106	-0.00918	-0.00769	-0.00650	-0.00555	-0.00477	-0.00413	-0.00360	-0.00316	-0.00279	-0.00247	-0.00220	-0.00197	-0.00177	-0.00159	
-4.	-0.00956	-0.00784	-0.00651	-0.00547	-0.00464	-0.00397	-0.00342	-0.00297	-0.00260	-0.00229	-0.00202	-0.00180	-0.00160	-0.00144	-0.00130	
-3.	-0.00766	-0.00621	-0.00512	-0.00427	-0.00360	-0.00307	-0.00264	-0.00228	-0.00199	-0.00175	-0.00154	-0.00137	-0.00122	-0.00109	-0.00098	
-2.	-0.00537	-0.00432	-0.00353	-0.00293	-0.00246	-0.00209	-0.00179	-0.00155	-0.00135	-0.00118	-0.00104	-0.00093	-0.00082	-0.00074	-0.00066	
-1.	-0.00277	-0.00221	-0.00180	-0.00149	-0.00125	-0.00106	-0.00091	-0.00078	-0.00068	-0.00060	-0.00053	-0.00047	-0.00041	-0.00037	-0.00033	

0.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
.1	0.00277	0.00221	0.00180	0.00149	0.00125	0.00106	0.00091	0.00078	0.00068	0.00060	0.00053	0.00047	0.00041	0.00037	0.00033		
.2	0.00537	0.00432	0.00353	0.00293	0.00246	0.00209	0.00179	0.00155	0.00135	0.00118	0.00104	0.00093	0.00082	0.00074	0.00066		
.3	0.00766	0.00621	0.00512	0.00427	0.00360	0.00307	0.00264	0.00228	0.00199	0.00175	0.00154	0.00137	0.00122	0.00109	0.00098		
.4	0.00956	0.00784	0.00651	0.00547	0.00464	0.00397	0.00342	0.00297	0.00260	0.00229	0.00202	0.00180	0.00160	0.00144	0.00130		
0.5	0.01106	0.00918	0.00769	0.00650	0.00555	0.00477	0.00413	0.00360	0.00316	0.00279	0.00247	0.00220	0.00197	0.00177	0.00159		
.6	0.01217	0.01022	0.00864	0.00737	0.00633	0.00547	0.00476	0.00417	0.00367	0.00324	0.00288	0.00257	0.00231	0.00207	0.00187		
.7	0.01293	0.01098	0.00938	0.00806	0.00697	0.00530	0.00466	0.00412	0.00365	0.00326	0.00291	0.00262	0.00236	0.00213			
.8	0.01339	0.01150	0.00992	0.00860	0.00749	0.00655	0.00576	0.00509	0.00451	0.00402	0.00359	0.00322	0.00290	0.00262	0.00238		
.9	0.01361	0.01181	0.01028	0.00898	0.00788	0.00694	0.00613	0.00544	0.00484	0.00433	0.00388	0.00349	0.00315	0.00286	0.00259		
1.0	0.01364	0.01195	0.01049	0.00924	0.00816	0.00722	0.00642	0.00572	0.00512	0.00459	0.00413	0.00373	0.00338	0.00307	0.00279		
1.1	0.01351	0.01194	0.01057	0.00938	0.00834	0.00743	0.00664	0.00595	0.00534	0.00481	0.00434	0.00393	0.00357	0.00325	0.00297		
1.2	0.01327	0.01183	0.01055	0.00942	0.00843	0.00756	0.00679	0.00611	0.00551	0.00498	0.00452	0.00410	0.00374	0.00341	0.00312		
1.3	0.01295	0.01163	0.01045	0.00939	0.00845	0.00762	0.00688	0.00622	0.00563	0.00511	0.00465	0.00424	0.00387	0.00354	0.00325		
1.4	0.01257	0.01136	0.01028	0.00930	0.00842	0.00762	0.00692	0.00628	0.00572	0.00521	0.00475	0.00435	0.00398	0.00365	0.00336		
1.5	0.01214	0.01105	0.01006	0.00915	0.00833	0.00758	0.00691	0.00631	0.00576	0.00527	0.00483	0.00443	0.00407	0.00374	0.00345		
1.6	0.01170	0.01071	0.00980	0.00897	0.00820	0.00750	0.00687	0.00630	0.00577	0.00530	0.00487	0.00448	0.00413	0.00381	0.00352		
1.7	0.01124	0.01035	0.00952	0.00875	0.00804	0.00739	0.00680	0.00625	0.00576	0.00530	0.00489	0.00451	0.00417	0.00386	0.00357		
1.8	0.01078	0.00997	0.00922	0.00852	0.00786	0.00726	0.00670	0.00619	0.00572	0.00528	0.00489	0.00453	0.00419	0.00389	0.00361		
1.9	0.01032	0.00959	0.00891	0.00827	0.00766	0.00710	0.00658	0.00610	0.00566	0.00525	0.00487	0.00452	0.00420	0.00391	0.00363		
2.0	0.00987	0.00922	0.00859	0.00801	0.00745	0.00693	0.00645	0.00600	0.00558	0.00519	0.00483	0.00450	0.00419	0.00391	0.00365		
2.1	0.00943	0.00884	0.00828	0.00774	0.00723	0.00675	0.00630	0.00588	0.00549	0.00512	0.00478	0.00446	0.00417	0.00390	0.00364		
2.2	0.00901	0.00848	0.00797	0.00748	0.00701	0.00657	0.00615	0.00576	0.00539	0.00504	0.00472	0.00442	0.00414	0.00388	0.00363		
2.3	0.00861	0.00812	0.00766	0.00721	0.00678	0.00637	0.00599	0.00562	0.00528	0.00495	0.00465	0.00436	0.00409	0.00384	0.00361		
2.4	0.00822	0.00778	0.00736	0.00695	0.00656	0.00618	0.00582	0.00548	0.00516	0.00485	0.00457	0.00430	0.00404	0.00381	0.00358		
2.5	0.00785	0.00745	0.00707	0.00669	0.00633	0.00599	0.00566	0.00534	0.00504	0.00475	0.00448	0.00423	0.00399	0.00376	0.00355		
2.6	0.00749	0.00714	0.00679	0.00644	0.00611	0.00579	0.00549	0.00519	0.00491	0.00465	0.00439	0.00415	0.00392	0.00371	0.00350		
2.7	0.00716	0.00683	0.00651	0.00620	0.00590	0.00560	0.00532	0.00505	0.00479	0.00454	0.00430	0.00407	0.00385	0.00365	0.00346		
2.8	0.00684	0.00654	0.00625	0.00597	0.00569	0.00542	0.00516	0.00490	0.00466	0.00442	0.00420	0.00399	0.00378	0.00359	0.00341		
2.9	0.00654	0.00627	0.00600	0.00574	0.00549	0.00524	0.00499	0.00476	0.00453	0.00431	0.00410	0.00390	0.00371	0.00353	0.00335		
3.0	0.00625	0.00600	0.00576	0.00552	0.00529	0.00506	0.00483	0.00461	0.00440	0.00420	0.00400	0.00381	0.00363	0.00346	0.00329		
3.1	0.00598	0.00575	0.00553	0.00531	0.00510	0.00488	0.00468	0.00447	0.00428	0.00409	0.00390	0.00372	0.00355	0.00339	0.00323		
3.2	0.00572	0.00552	0.00531	0.00511	0.00491	0.00472	0.00452	0.00434	0.00415	0.00397	0.00380	0.00364	0.00347	0.00332	0.00317		
3.3	0.00548	0.00529	0.00511	0.00492	0.00474	0.00456	0.00438	0.00420	0.00403	0.00386	0.00370	0.00355	0.00340	0.00325	0.00311		
3.4	0.00525	0.00508	0.00491	0.00474	0.00457	0.00440	0.00423	0.00407	0.00391	0.00376	0.00361	0.00346	0.00332	0.00318	0.00304		
3.5	0.00503	0.00487	0.00472	0.00456	0.00440	0.00425	0.00410	0.00394	0.00380	0.00365	0.00351	0.00337	0.00324	0.00311	0.00298		
3.6	0.00482	0.00468	0.00454	0.00439	0.00425	0.00404	0.00396	0.00382	0.00368	0.00355	0.00341	0.00328	0.00316	0.00303	0.00292		
3.7	0.00463	0.00450	0.00436	0.00423	0.00410	0.00396	0.00383	0.00370	0.00357	0.00345	0.00332	0.00320	0.00308	0.00296	0.00285		
3.8	0.00444	0.00432	0.00420	0.00408	0.00395	0.00383	0.00371	0.00359	0.00346	0.00335	0.00323	0.00312	0.00300	0.00289	0.00279		
3.9	0.00427	0.00416	0.00405	0.00393	0.00382	0.00370	0.00359	0.00347	0.00336	0.00325	0.00314	0.00303	0.00293	0.00282	0.00272		
4.0	0.00410	0.00400	0.00390	0.00379	0.00368	0.00358	0.00347	0.00337	0.00326	0.00316	0.00305	0.00295	0.00285	0.00276	0.00266		
4.1	0.00395	0.00385	0.00376	0.00366	0.00356	0.00346	0.00336	0.00326	0.00316	0.00307	0.00297	0.00287	0.00278	0.00269	0.00260		
4.2	0.00380	0.00371	0.00362	0.00353	0.00344	0.00335	0.00325	0.00316	0.00307	0.00298	0.00289	0.00280	0.00271	0.00262	0.00254		
4.3	0.00366	0.00357	0.00349	0.00341	0.00332	0.00324	0.00315	0.00306	0.00298	0.00289	0.00281	0.00272	0.00264	0.00256	0.00248		
4.4	0.00352	0.00345	0.00337	0.00329	0.00321	0.00313	0.00305	0.00297	0.00289	0.00281	0.00273	0.00265	0.00257	0.00250	0.00242		
4.5	0.00339	0.00332	0.00325	0.00318	0.00311	0.00303	0.00296	0.00288	0.00281	0.00273	0.00265	0.00258	0.00251	0.00243	0.00236		
4.6	0.00327	0.00321	0.00314	0.00307	0.00300	0.00294	0.00286	0.00279	0.00272	0.00265	0.00258	0.00251	0.00244	0.00237	0.00231		
4.7	0.00316	0.00310	0.00304	0.00297	0.00291	0.00284	0.00278	0.00271	0.00264	0.00258	0.00251	0.00245	0.00238	0.00231	0.00225		
4.8	0.00305	0.00299	0.00293	0.00288	0.00282	0.00275	0.00269	0.00263	0.00257	0.00251	0.00244	0.00238	0.00232	0.00226	0.00220		
4.9	0.00294	0.00289	0.00284	0.00278	0.00273	0.00267	0.00261	0.00255	0.00249	0.00242	0.00238	0.00232	0.00226	0.00220	0.00214		
5.0	0.00284	0.00280	0.00275	0.00269	0.00264	0.00259	0.00253	0.00248	0.00242	0.00237	0.00231	0.00226	0.00220	0.00215	0.00209		

TABLE I. - Continued. NONDIMENSIONAL AXIAL FIELD COMPONENT h_z

(b) Continued. Increments in axial and radial coordinates, 0.1

Axial coordinate, z	Radial coordinate, r														
	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5
-5.0	-0.00204	-0.00198	-0.00193	-0.00188	-0.00183	-0.00178	-0.00173	-0.00168	-0.00163	-0.00159	-0.00154	-0.00150	-0.00145	-0.00141	-0.00137
-4.9	-0.00209	-0.00203	-0.00197	-0.00192	-0.00187	-0.00181	-0.00176	-0.00171	-0.00166	-0.00161	-0.00157	-0.00152	-0.00148	-0.00143	-0.00139
-4.8	-0.00214	-0.00208	-0.00202	-0.00196	-0.00190	-0.00185	-0.00180	-0.00174	-0.00169	-0.00164	-0.00159	-0.00154	-0.00150	-0.00145	-0.00141
-4.7	-0.00219	-0.00212	-0.00206	-0.00200	-0.00194	-0.00189	-0.00183	-0.00177	-0.00172	-0.00167	-0.00162	-0.00157	-0.00152	-0.00147	-0.00142
-4.6	-0.00224	-0.00217	-0.00211	-0.00204	-0.00198	-0.00192	-0.00186	-0.00180	-0.00175	-0.00169	-0.00164	-0.00159	-0.00154	-0.00149	-0.00144
-4.5	-0.00229	-0.00222	-0.00215	-0.00209	-0.00202	-0.00196	-0.00190	-0.00184	-0.00178	-0.00172	-0.00166	-0.00161	-0.00156	-0.00151	-0.00146
-4.4	-0.00235	-0.00227	-0.00220	-0.00213	-0.00206	-0.00200	-0.00193	-0.00187	-0.00181	-0.00175	-0.00169	-0.00163	-0.00158	-0.00153	-0.00148
-4.3	-0.00240	-0.00232	-0.00225	-0.00217	-0.00210	-0.00203	-0.00196	-0.00190	-0.00183	-0.00177	-0.00171	-0.00165	-0.00160	-0.00154	-0.00149
-4.2	-0.00246	-0.00237	-0.00229	-0.00222	-0.00214	-0.00207	-0.00200	-0.00193	-0.00186	-0.00180	-0.00174	-0.00168	-0.00162	-0.00156	-0.00151
-4.1	-0.00251	-0.00243	-0.00234	-0.00226	-0.00218	-0.00211	-0.00203	-0.00196	-0.00189	-0.00182	-0.00176	-0.00170	-0.00164	-0.00158	-0.00152
-4.0	-0.00257	-0.00248	-0.00239	-0.00231	-0.00222	-0.00214	-0.00206	-0.00199	-0.00192	-0.00185	-0.00178	-0.00172	-0.00165	-0.00159	-0.00153
-3.9	-0.00263	-0.00253	-0.00244	-0.00235	-0.00226	-0.00218	-0.00210	-0.00202	-0.00194	-0.00187	-0.00180	-0.00173	-0.00167	-0.00161	-0.00155
-3.8	-0.00268	-0.00258	-0.00249	-0.00239	-0.00230	-0.00221	-0.00213	-0.00205	-0.00197	-0.00189	-0.00182	-0.00175	-0.00168	-0.00162	-0.00156
-3.7	-0.00274	-0.00264	-0.00253	-0.00244	-0.00234	-0.00225	-0.00216	-0.00208	-0.00199	-0.00192	-0.00184	-0.00177	-0.00170	-0.00163	-0.00157
-3.6	-0.00280	-0.00269	-0.00258	-0.00248	-0.00238	-0.00228	-0.00219	-0.00210	-0.00202	-0.00194	-0.00186	-0.00178	-0.00171	-0.00164	-0.00158
-3.5	-0.00286	-0.00274	-0.00263	-0.00252	-0.00242	-0.00232	-0.00222	-0.00213	-0.00204	-0.00196	-0.00187	-0.00180	-0.00172	-0.00165	-0.00159
-3.4	-0.00292	-0.00279	-0.00267	-0.00256	-0.00245	-0.00235	-0.00225	-0.00215	-0.00206	-0.00197	-0.00189	-0.00181	-0.00173	-0.00166	-0.00159
-3.3	-0.00297	-0.00284	-0.00272	-0.00260	-0.00249	-0.00238	-0.00227	-0.00217	-0.00208	-0.00199	-0.00190	-0.00182	-0.00174	-0.00167	-0.00160
-3.2	-0.00303	-0.00289	-0.00276	-0.00264	-0.00252	-0.00240	-0.00230	-0.00219	-0.00209	-0.00200	-0.00191	-0.00183	-0.00175	-0.00167	-0.00160
-3.1	-0.00308	-0.00294	-0.00280	-0.00267	-0.00255	-0.00243	-0.00232	-0.00221	-0.00211	-0.00201	-0.00192	-0.00183	-0.00175	-0.00167	-0.00160
-3.0	-0.00313	-0.00298	-0.00284	-0.00270	-0.00258	-0.00245	-0.00234	-0.00223	-0.00212	-0.00202	-0.00193	-0.00184	-0.00175	-0.00167	-0.00160
-2.9	-0.00318	-0.00303	-0.00288	-0.00273	-0.00260	-0.00247	-0.00235	-0.00224	-0.00213	-0.00203	-0.00193	-0.00184	-0.00175	-0.00167	-0.00159
-2.8	-0.00323	-0.00307	-0.00291	-0.00276	-0.00262	-0.00249	-0.00236	-0.00225	-0.00214	-0.00203	-0.00193	-0.00184	-0.00175	-0.00167	-0.00159
-2.7	-0.00327	-0.00310	-0.00294	-0.00278	-0.00264	-0.00250	-0.00237	-0.00225	-0.00214	-0.00203	-0.00193	-0.00183	-0.00174	-0.00166	-0.00158
-2.6	-0.00331	-0.00313	-0.00296	-0.00280	-0.00265	-0.00251	-0.00238	-0.00225	-0.00214	-0.00203	-0.00192	-0.00182	-0.00173	-0.00165	-0.00157
-2.5	-0.00335	-0.00316	-0.00298	-0.00281	-0.00266	-0.00251	-0.00238	-0.00225	-0.00213	-0.00202	-0.00191	-0.00181	-0.00172	-0.00163	-0.00155
-2.4	-0.00337	-0.00318	-0.00299	-0.00282	-0.00266	-0.00251	-0.00237	-0.00224	-0.00212	-0.00200	-0.00190	-0.00180	-0.00170	-0.00162	-0.00153
-2.3	-0.00339	-0.00319	-0.00300	-0.00282	-0.00266	-0.00251	-0.00236	-0.00223	-0.00210	-0.00199	-0.00188	-0.00178	-0.00168	-0.00159	-0.00151
-2.2	-0.00341	-0.00320	-0.00300	-0.00282	-0.00265	-0.00249	-0.00235	-0.00221	-0.00208	-0.00197	-0.00186	-0.00175	-0.00166	-0.00157	-0.00149
-2.1	-0.00341	-0.00319	-0.00299	-0.00280	-0.00263	-0.00247	-0.00232	-0.00219	-0.00206	-0.00194	-0.00183	-0.00173	-0.00163	-0.00154	-0.00146
-2.0	-0.00340	-0.00318	-0.00297	-0.00278	-0.00261	-0.00244	-0.00229	-0.00215	-0.00203	-0.00191	-0.00179	-0.00169	-0.00160	-0.00151	-0.00142
-1.9	-0.00339	-0.00316	-0.00295	-0.00275	-0.00257	-0.00241	-0.00226	-0.00212	-0.00199	-0.00187	-0.00176	-0.00165	-0.00156	-0.00147	-0.00139
-1.8	-0.00336	-0.00312	-0.00291	-0.00271	-0.00253	-0.00237	-0.00221	-0.00207	-0.00194	-0.00182	-0.00171	-0.00161	-0.00152	-0.00143	-0.00135
-1.7	-0.00331	-0.00308	-0.00286	-0.00266	-0.00248	-0.00231	-0.00216	-0.00202	-0.00189	-0.00177	-0.00166	-0.00156	-0.00147	-0.00138	-0.00130
-1.6	-0.00326	-0.00302	-0.00280	-0.00260	-0.00242	-0.00225	-0.00210	-0.00196	-0.00183	-0.00172	-0.00161	-0.00151	-0.00142	-0.00133	-0.00125
-1.5	-0.00318	-0.00294	-0.00272	-0.00252	-0.00234	-0.00218	-0.00203	-0.00189	-0.00177	-0.00165	-0.00155	-0.00145	-0.00136	-0.00128	-0.00120
-1.4	-0.00309	-0.00285	-0.00263	-0.00244	-0.00226	-0.00210	-0.00195	-0.00182	-0.00169	-0.00158	-0.00148	-0.00138	-0.00122	-0.00114	-0.00104
-1.3	-0.00298	-0.00275	-0.00253	-0.00234	-0.00216	-0.00201	-0.00186	-0.00173	-0.00161	-0.00150	-0.00140	-0.00131	-0.00123	-0.00115	-0.00108
-1.2	-0.00288	-0.00262	-0.00242	-0.00223	-0.00206	-0.00190	-0.00177	-0.00164	-0.00152	-0.00142	-0.00133	-0.00124	-0.00116	-0.00109	-0.00102
-1.1	-0.00271	-0.00249	-0.00228	-0.00210	-0.00194	-0.00179	-0.00166	-0.00143	-0.00133	-0.00124	-0.00116	-0.00108	-0.00101	-0.00095	-0.00086
-1.0	-0.00255	-0.00233	-0.00214	-0.00196	-0.00167	-0.00154	-0.00143	-0.00133	-0.00123	-0.00115	-0.00107	-0.00100	-0.00094	-0.00088	-0.00080
-0.9	-0.00236	-0.00216	-0.00197	-0.00181	-0.00167	-0.00154	-0.00142	-0.00131	-0.00122	-0.00113	-0.00105	-0.00098	-0.00085	-0.00080	-0.00072
-0.8	-0.00216	-0.00197	-0.00180	-0.00165	-0.00151	-0.00139	-0.00129	-0.00119	-0.00110	-0.00102	-0.00095	-0.00088	-0.00082	-0.00077	-0.00072
-0.7	-0.00194	-0.00176	-0.00161	-0.00147	-0.00135	-0.00124	-0.00114	-0.00106	-0.00098	-0.00091	-0.00084	-0.00078	-0.00073	-0.00068	-0.00064
-0.6	-0.00170	-0.00154	-0.00141	-0.00128	-0.00118	-0.00108	-0.00100	-0.00092	-0.00085	-0.00079	-0.00073	-0.00068	-0.00063	-0.00059	-0.00055
-0.5	-0.00144	-0.00131	-0.00119	-0.00109	-0.00099	-0.00091	-0.00084	-0.00077	-0.00072	-0.00066	-0.00062	-0.00057	-0.00053	-0.00050	-0.00046
-0.4	-0.00117	-0.00106	-0.00097	-0.00088	-0.00081	-0.00074	-0.00068	-0.00063	-0.00058	-0.00054	-0.00050	-0.00046	-0.00043	-0.00040	-0.00037
-0.3	-0.00089	-0.00081	-0.00073	-0.00067	-0.00061	-0.00056	-0.00051	-0.00047	-0.00044	-0.00040	-0.00037	-0.00035	-0.00032	-0.00030	-0.00028
-0.2	-0.00060	-0.00054	-0.00049	-0.00045	-0.00041	-0.00038	-0.00034	-0.00032	-0.00029	-0.00027	-0.00025	-0.00023	-0.00022	-0.00020	-0.00019
-0.1	-0.00030	-0.00027	-0.00025	-0.00022	-0.00020	-0.00019	-0.00017	-0.00016	-0.00015	-0.00013	-0.00012	-0.00011	-0.00010	-0.00009	-0.00008

0.0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
.1	0.00030	0.00027	0.00025	0.00022	0.00020	0.00019	0.00017	0.00016	0.00015	0.00013	0.00012	0.00011	0.00011	0.00010	0.00009	0.00009	0.00009	0.00009
.2	0.00060	0.00054	0.00049	0.00045	0.00041	0.00038	0.00034	0.00032	0.00029	0.00027	0.00025	0.00023	0.00022	0.00020	0.00019	0.00019	0.00019	0.00019
.3	0.00089	0.00081	0.00073	0.00067	0.00061	0.00056	0.00051	0.00047	0.00044	0.00040	0.00037	0.00035	0.00032	0.00030	0.00028	0.00028	0.00028	0.00028
.4	0.00117	0.00106	0.00097	0.00088	0.00081	0.00074	0.00068	0.00063	0.00058	0.00054	0.00050	0.00046	0.00043	0.00040	0.00037	0.00037	0.00037	0.00037
0.5	0.00144	0.00131	0.00119	0.00109	0.00099	0.00091	0.00084	0.00077	0.00072	0.00066	0.00062	0.00057	0.00053	0.00050	0.00046	0.00046	0.00046	0.00046
.6	0.00170	0.00154	0.00141	0.00128	0.00118	0.00108	0.00100	0.00092	0.00085	0.00079	0.00073	0.00068	0.00063	0.00059	0.00055	0.00055	0.00055	0.00055
.7	0.00194	0.00176	0.00161	0.00147	0.00135	0.00124	0.00114	0.00106	0.00098	0.00091	0.00084	0.00078	0.00073	0.00068	0.00064	0.00064	0.00064	0.00064
.8	0.00216	0.00197	0.00180	0.00165	0.00151	0.00139	0.00129	0.00119	0.00110	0.00102	0.00095	0.00088	0.00082	0.00077	0.00072	0.00072	0.00072	0.00072
.9	0.00236	0.00216	0.00197	0.00181	0.00167	0.00154	0.00142	0.00131	0.00122	0.00113	0.00105	0.00098	0.00091	0.00085	0.00080	0.00080	0.00080	0.00080
1.0	0.00255	0.00233	0.00214	0.00196	0.00181	0.00167	0.00154	0.00143	0.00133	0.00123	0.00115	0.00107	0.00100	0.00094	0.00088	0.00088	0.00088	0.00088
1.1	0.00271	0.00249	0.00228	0.00210	0.00194	0.00179	0.00166	0.00154	0.00143	0.00133	0.00124	0.00116	0.00108	0.00101	0.00095	0.00095	0.00095	0.00095
1.2	0.00286	0.00262	0.00242	0.00223	0.00206	0.00190	0.00177	0.00164	0.00152	0.00142	0.00133	0.00124	0.00116	0.00109	0.00102	0.00102	0.00102	0.00102
1.3	0.00298	0.00275	0.00253	0.00234	0.00216	0.00201	0.00186	0.00173	0.00161	0.00150	0.00140	0.00131	0.00123	0.00115	0.00108	0.00108	0.00108	0.00108
1.4	0.00309	0.00285	0.00263	0.00244	0.00226	0.00210	0.00195	0.00182	0.00169	0.00158	0.00148	0.00138	0.00130	0.00122	0.00114	0.00114	0.00114	0.00114
1.5	0.00318	0.00294	0.00272	0.00252	0.00234	0.00218	0.00203	0.00189	0.00177	0.00165	0.00155	0.00145	0.00136	0.00128	0.00120	0.00120	0.00120	0.00120
1.6	0.00326	0.00302	0.00280	0.00260	0.00242	0.00225	0.00210	0.00196	0.00183	0.00172	0.00161	0.00151	0.00142	0.00133	0.00125	0.00125	0.00125	0.00125
1.7	0.00331	0.00308	0.00286	0.00266	0.00248	0.00231	0.00216	0.00202	0.00189	0.00177	0.00166	0.00156	0.00147	0.00138	0.00130	0.00130	0.00130	0.00130
1.8	0.00336	0.00312	0.00291	0.00271	0.00253	0.00237	0.00221	0.00207	0.00194	0.00182	0.00171	0.00161	0.00152	0.00143	0.00135	0.00135	0.00135	0.00135
1.9	0.00339	0.00316	0.00295	0.00275	0.00257	0.00241	0.00226	0.00212	0.00199	0.00187	0.00176	0.00165	0.00156	0.00147	0.00139	0.00139	0.00139	0.00139
2.0	0.00340	0.00318	0.00297	0.00278	0.00261	0.00244	0.00229	0.00215	0.00203	0.00191	0.00179	0.00169	0.00160	0.00151	0.00142	0.00142	0.00142	0.00142
2.1	0.00341	0.00319	0.00299	0.00280	0.00263	0.00247	0.00232	0.00219	0.00206	0.00194	0.00183	0.00173	0.00163	0.00154	0.00146	0.00146	0.00146	0.00146
2.2	0.00341	0.00320	0.00300	0.00282	0.00265	0.00249	0.00235	0.00221	0.00208	0.00197	0.00186	0.00175	0.00166	0.00157	0.00149	0.00149	0.00149	0.00149
2.3	0.00339	0.00319	0.00300	0.00282	0.00266	0.00251	0.00236	0.00223	0.00210	0.00199	0.00188	0.00178	0.00168	0.00159	0.00151	0.00151	0.00151	0.00151
2.4	0.00337	0.00318	0.00299	0.00282	0.00266	0.00251	0.00237	0.00224	0.00212	0.00200	0.00190	0.00180	0.00170	0.00162	0.00153	0.00153	0.00153	0.00153
2.5	0.00335	0.00316	0.00298	0.00281	0.00266	0.00251	0.00238	0.00225	0.00213	0.00202	0.00191	0.00181	0.00172	0.00163	0.00155	0.00155	0.00155	0.00155
2.6	0.00331	0.00313	0.00296	0.00280	0.00260	0.00251	0.00238	0.00225	0.00214	0.00203	0.00192	0.00182	0.00173	0.00165	0.00157	0.00157	0.00157	0.00157
2.7	0.00327	0.00310	0.00294	0.00278	0.00264	0.00250	0.00237	0.00225	0.00214	0.00203	0.00193	0.00183	0.00174	0.00166	0.00158	0.00158	0.00158	0.00158
2.8	0.00323	0.00307	0.00291	0.00276	0.00262	0.00249	0.00236	0.00225	0.00214	0.00203	0.00193	0.00184	0.00175	0.00167	0.00159	0.00159	0.00159	0.00159
2.9	0.00318	0.00303	0.00288	0.00273	0.00260	0.00247	0.00235	0.00224	0.00213	0.00203	0.00193	0.00184	0.00175	0.00167	0.00159	0.00159	0.00159	0.00159
3.0	0.00313	0.00298	0.00284	0.00270	0.00258	0.00245	0.00234	0.00223	0.00212	0.00202	0.00193	0.00184	0.00175	0.00167	0.00160	0.00160	0.00160	0.00160
3.1	0.00308	0.00294	0.00280	0.00267	0.00255	0.00243	0.00232	0.00221	0.00211	0.00201	0.00192	0.00183	0.00175	0.00167	0.00160	0.00160	0.00160	0.00160
3.2	0.00303	0.00289	0.00276	0.00264	0.00252	0.00240	0.00230	0.00219	0.00209	0.00200	0.00191	0.00183	0.00175	0.00167	0.00160	0.00160	0.00160	0.00160
3.3	0.00297	0.00284	0.00272	0.00262	0.00250	0.00249	0.00238	0.00227	0.00217	0.00208	0.00199	0.00190	0.00182	0.00174	0.00167	0.00160	0.00160	0.00160
3.4	0.00292	0.00279	0.00267	0.00256	0.00245	0.00235	0.00225	0.00215	0.00206	0.00197	0.00189	0.00181	0.00173	0.00166	0.00159	0.00159	0.00159	0.00159
3.5	0.00286	0.00274	0.00263	0.00252	0.00242	0.00232	0.00222	0.00213	0.00204	0.00196	0.00187	0.00180	0.00172	0.00165	0.00159	0.00159	0.00159	0.00159
3.6	0.00280	0.00269	0.00258	0.00248	0.00238	0.00228	0.00219	0.00210	0.00202	0.00194	0.00186	0.00178	0.00171	0.00164	0.00158	0.00158	0.00158	0.00158
3.7	0.00274	0.00264	0.00253	0.00244	0.00234	0.00225	0.00216	0.00208	0.00199	0.00192	0.00184	0.00177	0.00170	0.00163	0.00157	0.00157	0.00157	0.00157
3.8	0.00268	0.00258	0.00249	0.00239	0.00230	0.00221	0.00213	0.00205	0.00197	0.00189	0.00182	0.00175	0.00168	0.00162	0.00156	0.00156	0.00156	0.00156
3.9	0.00263	0.00253	0.00244	0.00235	0.00226	0.00218	0.00210	0.00202	0.00194	0.00187	0.00180	0.00173	0.00167	0.00161	0.00155	0.00155	0.00155	0.00155
4.0	0.00257	0.00248	0.00239	0.00231	0.00222	0.00214	0.00206	0.00199	0.00192	0.00185	0.00178	0.00172	0.00166	0.00161	0.00156	0.00151	0.00151	0.00151
4.1	0.00251	0.00243	0.00234	0.00226	0.00218	0.00211	0.00203	0.00196	0.00189	0.00182	0.00176	0.00170	0.00164	0.00158	0.00152	0.00152	0.00152	0.00152
4.2	0.00246	0.00237	0.00229	0.00222	0.00214	0.00207	0.00200	0.00193	0.00186	0.00180	0.00174	0.00168	0.00162	0.00156	0.00151	0.00151	0.00151	0.00151
4.3	0.00240	0.00232	0.00225	0.00217	0.00210	0.00203	0.00196	0.00190	0.00183	0.00177	0.00171	0.00165	0.00160	0.00154	0.00149	0.00149	0.00149	0.00149
4.4	0.00235	0.00227	0.00220	0.00213	0.00206	0.00193	0.00187	0.00181	0.00175	0.00169	0.00163	0.00159	0.00153	0.00148	0.00144	0.00144	0.00144	0.00144
4.5	0.00229	0.00222	0.00215	0.00209	0.00202	0.00196	0.00190	0.00184	0.00178	0.00172	0.00166	0.00161	0.00156	0.00151	0.00146	0.00146	0.00146	0.00146
4.6	0.00224	0.00217	0.00211	0.00204	0.00198	0.00192	0.00186	0.00180	0.00175	0.00169	0.00164	0.00159	0.00154	0.00149	0.00144	0.00144	0.00144	0.00144
4.7	0.00219	0.00212	0.00206	0.00200	0.00194	0.00189	0.00183	0.00177	0.00172	0.00167	0.00162	0.00157	0.00152	0.00147	0.00142	0.00142	0.00142	0.00142
4.8	0.00214	0.00208	0.00202	0.00196	0.00190	0.00185	0.00180	0.00174	0.00169	0.00164	0.00159	0.00154	0.00150	0.00145	0.00141	0.00141	0.00141	0.00141
4.9	0.00209	0.00203	0.00197	0.00192	0.00187	0.00181	0.00176	0.00171	0.00166	0.00161	0.00157	0.00152	0.00148	0.00143	0.00139	0.00139	0.00139	0.00139
5.0	0.00204	0.00198	0.00193	0.00188	0.00183	0.00178	0.00173	0.00168	0.00163	0.0015								

TABLE I. - Continued. NONDIMENSIONAL AXIAL FIELD COMPONENT b_z
(b) Concluded. Increments in axial and radial coordinates, 0.1

Axial coordi- nate, z	Radial coordinate, r					Axial coordi- nate, z	Radial coordinate, r				
	4.6	4.7	4.8	4.9	5.0		4.6	4.7	4.8	4.9	5.0
-5.0	-0.00133	-0.00129	-0.00125	-0.00122	-0.00118	0.0	0.	0.	0.	0.	0.
-4.9	-0.00135	-0.00131	-0.00127	-0.00123	-0.00119	.1	0.00008	0.00008	0.00007	0.00007	0.00006
-4.8	-0.00136	-0.00132	-0.00128	-0.00124	-0.00120	.2	0.00018	0.00016	0.00015	0.00015	0.00014
-4.7	-0.00138	-0.00134	-0.00130	-0.00126	-0.00122	.3	0.00026	0.00025	0.00023	0.00022	0.00020
-4.6	-0.00140	-0.00135	-0.00131	-0.00127	-0.00123	.4	0.00035	0.00033	0.00031	0.00029	0.00027
-4.5	-0.00141	-0.00137	-0.00132	-0.00128	-0.00124	0.5	0.00043	0.00041	0.00038	0.00036	0.00034
-4.4	-0.00143	-0.00138	-0.00133	-0.00129	-0.00125	.6	0.00052	0.00048	0.00045	0.00043	0.00040
-4.3	-0.00144	-0.00139	-0.00134	-0.00130	-0.00126	.7	0.00060	0.00056	0.00053	0.00049	0.00047
-4.2	-0.00145	-0.00140	-0.00136	-0.00131	-0.00126	.8	0.00067	0.00063	0.00059	0.00056	0.00053
-4.1	-0.00147	-0.00142	-0.00137	-0.00132	-0.00127	.9	0.00075	0.00070	0.00066	0.00062	0.00059
-4.0	-0.00148	-0.00143	-0.00137	-0.00132	-0.00128	1.0	0.00082	0.00077	0.00073	0.00068	0.00064
-3.9	-0.00149	-0.00143	-0.00138	-0.00133	-0.00128	1.1	0.00089	0.00084	0.00079	0.00074	0.00070
-3.8	-0.00150	-0.00144	-0.00139	-0.00134	-0.00129	1.2	0.00096	0.00090	0.00085	0.00080	0.00075
-3.7	-0.00151	-0.00145	-0.00139	-0.00134	-0.00129	1.3	0.00102	0.00096	0.00090	0.00085	0.00080
-3.6	-0.00152	-0.00146	-0.00140	-0.00134	-0.00129	1.4	0.00108	0.00101	0.00096	0.00090	0.00085
-3.5	-0.00152	-0.00146	-0.00140	-0.00135	-0.00129	1.5	0.00113	0.00107	0.00101	0.00095	0.00090
-3.4	-0.00153	-0.00146	-0.00140	-0.00135	-0.00129	1.6	0.00118	0.00111	0.00105	0.00099	0.00094
-3.3	-0.00153	-0.00147	-0.00140	-0.00135	-0.00129	1.7	0.00123	0.00116	0.00110	0.00104	0.00098
-3.2	-0.00153	-0.00146	-0.00140	-0.00134	-0.00129	1.8	0.00127	0.00120	0.00114	0.00108	0.00102
-3.1	-0.00153	-0.00146	-0.00140	-0.00134	-0.00128	1.9	0.00131	0.00124	0.00117	0.00111	0.00105
-3.0	-0.00153	-0.00146	-0.00139	-0.00133	-0.00128	2.0	0.00135	0.00128	0.00121	0.00115	0.00109
-2.9	-0.00152	-0.00145	-0.00139	-0.00132	-0.00127	2.1	0.00138	0.00131	0.00124	0.00118	0.00112
-2.8	-0.00151	-0.00144	-0.00138	-0.00131	-0.00126	2.2	0.00141	0.00134	0.00127	0.00120	0.00114
-2.7	-0.00150	-0.00143	-0.00137	-0.00130	-0.00124	2.3	0.00143	0.00136	0.00129	0.00123	0.00117
-2.6	-0.00149	-0.00142	-0.00135	-0.00129	-0.00123	2.4	0.00146	0.00138	0.00131	0.00125	0.00119
-2.5	-0.00147	-0.00140	-0.00133	-0.00127	-0.00121	2.5	0.00147	0.00140	0.00133	0.00127	0.00121
-2.4	-0.00146	-0.00138	-0.00131	-0.00125	-0.00119	2.6	0.00149	0.00142	0.00135	0.00129	0.00123
-2.3	-0.00143	-0.00136	-0.00129	-0.00123	-0.00117	2.7	0.00150	0.00143	0.00137	0.00130	0.00124
-2.2	-0.00141	-0.00134	-0.00127	-0.00120	-0.00114	2.8	0.00151	0.00144	0.00138	0.00131	0.00126
-2.1	-0.00138	-0.00131	-0.00124	-0.00118	-0.00112	2.9	0.00152	0.00145	0.00139	0.00132	0.00127
-2.0	-0.00135	-0.00128	-0.00121	-0.00115	-0.00109	3.0	0.00153	0.00146	0.00139	0.00133	0.00128
-1.9	-0.00131	-0.00124	-0.00117	-0.00111	-0.00105	3.1	0.00153	0.00146	0.00140	0.00134	0.00128
-1.8	-0.00127	-0.00120	-0.00114	-0.00108	-0.00102	3.2	0.00153	0.00146	0.00140	0.00134	0.00129
-1.7	-0.00123	-0.00116	-0.00110	-0.00104	-0.00098	3.3	0.00153	0.00147	0.00140	0.00135	0.00129
-1.6	-0.00118	-0.00111	-0.00105	-0.00099	-0.00094	3.4	0.00153	0.00146	0.00140	0.00135	0.00129
-1.5	-0.00113	-0.00107	-0.00101	-0.00095	-0.00090	3.5	0.00152	0.00146	0.00140	0.00135	0.00129
-1.4	-0.00108	-0.00101	-0.00096	-0.00090	-0.00085	3.6	0.00152	0.00146	0.00140	0.00134	0.00129
-1.3	-0.00102	-0.00096	-0.00090	-0.00085	-0.00080	3.7	0.00151	0.00145	0.00139	0.00134	0.00129
-1.2	-0.00096	-0.00090	-0.00085	-0.00080	-0.00075	3.8	0.00150	0.00144	0.00139	0.00134	0.00129
-1.1	-0.00089	-0.00084	-0.00079	-0.00074	-0.00070	3.9	0.00149	0.00143	0.00138	0.00133	0.00128
-1.0	-0.00082	-0.00077	-0.00073	-0.00068	-0.00064	4.0	0.00148	0.00143	0.00137	0.00132	0.00128
-0.9	-0.00075	-0.00070	-0.00066	-0.00062	-0.00059	4.1	0.00147	0.00142	0.00137	0.00132	0.00127
-0.8	-0.00067	-0.00063	-0.00059	-0.00056	-0.00053	4.2	0.00145	0.00140	0.00136	0.00131	0.00126
-0.7	-0.00060	-0.00056	-0.00053	-0.00049	-0.00047	4.3	0.00144	0.00139	0.00134	0.00130	0.00126
-0.6	-0.00052	-0.00048	-0.00045	-0.00043	-0.00040	4.4	0.00143	0.00138	0.00133	0.00129	0.00125
-0.5	-0.00043	-0.00041	-0.00038	-0.00036	-0.00034	4.5	0.00141	0.00137	0.00132	0.00128	0.00124
-0.4	-0.00035	-0.00033	-0.00031	-0.00029	-0.00027	4.6	0.00140	0.00135	0.00131	0.00127	0.00123
-0.3	-0.00026	-0.00025	-0.00023	-0.00022	-0.00020	4.7	0.00138	0.00134	0.00130	0.00126	0.00122
-0.2	-0.00018	-0.00016	-0.00015	-0.00015	-0.00014	4.8	0.00136	0.00132	0.00128	0.00124	0.00120
-0.1	-0.00008	-0.00008	-0.00007	-0.00007	-0.00006	4.9	0.00135	0.00131	0.00127	0.00123	0.00119
						5.0	0.00133	0.00129	0.00125	0.00122	0.00118

TABLE I. - Continued. NONDIMENSIONAL AXIAL FIELD COMPONENT h_z

(c) Increments in axial and radial coordinates, 0.05

Axial coordinate, z	Radial coordinate, r															
	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
-1.00	0.94069	0.89080	0.84113	0.79167	0.74242	0.69337	0.64451	0.59581	0.54727	0.49887	0.45058	0.40239	0.35428	0.30622	0.25821	0.21021
-.95	0.93610	0.88622	0.83660	0.78722	0.73807	0.68914	0.64043	0.59190	0.54335	0.49535	0.44728	0.39931	0.35143	0.30361	0.25582	0.20806
-.90	0.93101	0.88115	0.83158	0.78228	0.73325	0.68447	0.63592	0.58760	0.53946	0.49149	0.44367	0.39596	0.34834	0.30078	0.25326	0.20576
-.85	0.92535	0.87551	0.82600	0.77680	0.72790	0.67929	0.63094	0.58284	0.53496	0.48726	0.43972	0.39231	0.34499	0.29774	0.25052	0.20330
-.80	0.91904	0.86922	0.81978	0.77069	0.72195	0.67354	0.62542	0.57759	0.52999	0.48260	0.43539	0.38832	0.34135	0.29444	0.24756	0.20068
-0.75	0.91198	0.86219	0.81283	0.76388	0.71532	0.66713	0.61929	0.5176	0.52450	0.47747	0.43064	0.38396	0.33738	0.29088	0.24439	0.19789
-.70	0.90407	0.85431	0.80504	0.75625	0.70790	0.65999	0.61246	0.56528	0.51841	0.47180	0.42541	0.37918	0.33307	0.28701	0.24098	0.19492
-.65	0.89517	0.84545	0.79630	0.74769	0.69959	0.65199	0.60483	0.55807	0.51165	0.46553	0.41965	0.37394	0.32835	0.28283	0.23732	0.19176
-.60	0.88514	0.83547	0.78644	0.73805	0.69026	0.64302	0.59629	0.55002	0.50414	0.45858	0.41328	0.36818	0.32321	0.27829	0.23338	0.18839
-.55	0.87379	0.82417	0.77531	0.72717	0.67973	0.63294	0.58672	0.54101	0.49575	0.45085	0.40625	0.36185	0.31758	0.27337	0.22914	0.18482
-0.50	0.86091	0.81135	0.76268	0.71486	0.66784	0.62157	0.57595	0.53092	0.48638	0.44226	0.39844	0.35486	0.31141	0.26802	0.22458	0.18103
-.45	0.84623	0.79676	0.74832	0.70088	0.65437	0.60871	0.56382	0.51958	0.47590	0.43267	0.38978	0.34714	0.30465	0.26219	0.21968	0.17701
-.40	0.82945	0.78007	0.73192	0.68495	0.63906	0.59415	0.55011	0.50682	0.46414	0.42195	0.38015	0.33861	0.29721	0.25585	0.21440	0.17276
-.35	0.81015	0.76090	0.71311	0.66672	0.62160	0.57761	0.53460	0.49243	0.45093	0.40997	0.36942	0.32915	0.28902	0.24892	0.20871	0.16827
-.30	0.78783	0.73875	0.69144	0.64579	0.60164	0.55878	0.51703	0.47618	0.43608	0.39655	0.35745	0.31864	0.27998	0.24134	0.20256	0.16352
-0.25	0.76184	0.71297	0.66631	0.62165	0.57874	0.53730	0.49708	0.45784	0.41938	0.38151	0.34409	0.30696	0.26998	0.23301	0.19589	0.15847
-.20	0.73124	0.68270	0.63695	0.59365	0.55239	0.51276	0.47443	0.43712	0.40059	0.36466	0.32916	0.29395	0.25888	0.22382	0.18861	0.15309
-.15	0.69469	0.64668	0.60234	0.56102	0.52200	0.48472	0.44874	0.41374	0.37949	0.34579	0.31248	0.27943	0.24652	0.21362	0.18059	0.14726
-.10	0.64991	0.60290	0.56102	0.52276	0.48690	0.45269	0.41964	0.38743	0.35583	0.32468	0.29386	0.26324	0.23273	0.20224	0.17165	0.14083
-.05	0.59224	0.54786	0.51101	0.47776	0.44642	0.41624	0.38682	0.35792	0.32940	0.30115	0.27309	0.24516	0.21730	0.18945	0.16155	0.13353
0.00	0.50000	0.47500	0.45000	0.42500	0.40000	0.37500	0.35000	0.32500	0.30000	0.27500	0.25000	0.22500	0.20000	0.17500	0.15000	0.12500
.05	0.40776	0.40214	0.38898	0.37224	0.35358	0.33376	0.31318	0.29208	0.27060	0.24885	0.22691	0.20484	0.18270	0.16055	0.13845	0.11647
.10	0.35009	0.34710	0.33898	0.32724	0.31310	0.29731	0.28036	0.26257	0.24417	0.22532	0.20614	0.18676	0.16727	0.14776	0.12835	0.10917
.15	0.30531	0.30332	0.29766	0.28898	0.27800	0.26528	0.25126	0.23626	0.22051	0.20421	0.18752	0.17057	0.15348	0.13638	0.11941	0.10274
.20	0.26876	0.26730	0.26305	0.25635	0.24761	0.23724	0.22557	0.21288	0.19941	0.18534	0.17084	0.15605	0.14112	0.12618	0.11139	0.09691
0.25	0.23816	0.23703	0.23369	0.22835	0.22126	0.21270	0.20292	0.19216	0.18062	0.16849	0.15591	0.14304	0.13002	0.11699	0.10411	0.09153
.30	0.21217	0.21125	0.20856	0.20421	0.19836	0.19122	0.18297	0.17382	0.16392	0.15345	0.14255	0.13136	0.12002	0.10866	0.09744	0.08648
.35	0.18985	0.18910	0.18689	0.18328	0.17840	0.17239	0.16540	0.15757	0.14907	0.14003	0.13058	0.12085	0.11098	0.10108	0.09129	0.08173
.40	0.17055	0.16993	0.16808	0.16505	0.16094	0.15585	0.14989	0.14318	0.13586	0.12805	0.11985	0.11139	0.10279	0.09415	0.08560	0.07724
.45	0.15377	0.15324	0.15168	0.14912	0.14563	0.14129	0.13618	0.13042	0.12410	0.11733	0.11022	0.10286	0.09535	0.08781	0.08032	0.07299
0.50	0.13909	0.13865	0.13732	0.13514	0.13216	0.12843	0.12405	0.11908	0.11362	0.10774	0.10156	0.09514	0.08859	0.08198	0.07542	0.06897
.55	0.12621	0.12583	0.12469	0.12283	0.12027	0.11706	0.11328	0.10899	0.10425	0.09915	0.09375	0.08818	0.08242	0.07663	0.07086	0.06518
.60	0.11486	0.11453	0.11356	0.11195	0.10974	0.10698	0.10371	0.09998	0.09586	0.09142	0.08672	0.08182	0.07679	0.07171	0.06662	0.06161
.65	0.10483	0.10455	0.10370	0.10231	0.10041	0.09801	0.09517	0.09193	0.08835	0.08447	0.08035	0.07606	0.07165	0.06717	0.06268	0.05824
.70	0.09593	0.09569	0.09496	0.09375	0.09210	0.09001	0.08754	0.08472	0.08159	0.07820	0.07459	0.07082	0.06693	0.06299	0.05902	0.05508
0.75	0.08802	0.08781	0.08717	0.08612	0.08468	0.08287	0.08071	0.07824	0.07550	0.07253	0.06936	0.06604	0.06262	0.05912	0.05561	0.05211
.80	0.08096	0.08078	0.08022	0.07931	0.07805	0.07646	0.07458	0.07241	0.07001	0.06740	0.06461	0.06168	0.05865	0.05556	0.05244	0.04932
.85	0.07465	0.07449	0.07400	0.07320	0.07210	0.07071	0.06906	0.06716	0.06504	0.06274	0.06028	0.05769	0.05501	0.05226	0.04948	0.04670
.90	0.06899	0.06885	0.06842	0.06772	0.06675	0.06553	0.06408	0.06240	0.06054	0.05851	0.05633	0.05404	0.05166	0.04922	0.04674	0.04424
.95	0.06390	0.06378	0.06340	0.06278	0.06193	0.06086	0.05957	0.05810	0.05645	0.05465	0.05272	0.05069	0.04857	0.04639	0.04418	0.04194
1.00	0.05931	0.05920	0.05887	0.05833	0.05758	0.05663	0.05549	0.05419	0.05273	0.05113	0.04942	0.04761	0.04572	0.04378	0.04179	0.03979

TABLE I. - Continued. NONDIMENSIONAL AXIAL FIELD COMPONENT h_z

(c) Concluded. Increments in axial and radial coordinates, 0.05

Axial coordi- nate, z	Radial coordinate, r														
	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50
-1.00	0.16222	0.11421	0.06617	0.01808	-0.03005	-0.02825	-0.02652	-0.02487	-0.02330	-0.02181	-0.02040	-0.01908	-0.01784	-0.01668	-0.01559
-.95	0.16028	0.11249	0.06465	0.01676	-0.03120	-0.02923	-0.02735	-0.02556	-0.02387	-0.02227	-0.02077	-0.01936	-0.01804	-0.01682	-0.01568
-.90	0.15823	0.11068	0.06307	0.01539	-0.03236	-0.03022	-0.02817	-0.02623	-0.02441	-0.02269	-0.02109	-0.01960	-0.01821	-0.01692	-0.01573
-.85	0.15606	0.10878	0.06143	0.01399	-0.03355	-0.03120	-0.02897	-0.02688	-0.02491	-0.02307	-0.02137	-0.01978	-0.01832	-0.01697	-0.01572
-.80	0.15377	0.10679	0.05973	0.01256	-0.03473	-0.03217	-0.02975	-0.02748	-0.02536	-0.02340	-0.02158	-0.01990	-0.01836	-0.01695	-0.01566
-0.75	0.15135	0.10472	0.05798	0.01111	-0.03592	-0.03311	-0.03047	-0.02802	-0.02574	-0.02365	-0.02172	-0.01995	-0.01834	-0.01686	-0.01552
-.70	0.14879	0.10256	0.05619	0.00965	-0.03708	-0.03400	-0.03114	-0.02849	-0.02604	-0.02381	-0.02176	-0.01991	-0.01822	-0.01669	-0.01531
-.65	0.14611	0.10032	0.05436	0.00820	-0.03819	-0.03483	-0.03171	-0.02885	-0.02623	-0.02385	-0.02170	-0.01976	-0.01800	-0.01643	-0.01501
-.60	0.14329	0.09801	0.05252	0.00678	-0.03924	-0.03556	-0.03217	-0.02909	-0.02629	-0.02377	-0.02151	-0.01948	-0.01767	-0.01605	-0.01461
-.55	0.14034	0.09565	0.05069	0.00542	-0.04019	-0.03615	-0.03248	-0.02916	-0.02618	-0.02352	-0.02116	-0.01906	-0.01720	-0.01556	-0.01410
-0.50	0.13728	0.09325	0.04890	0.00416	-0.04098	-0.03657	-0.03258	-0.02903	-0.02587	-0.02308	-0.02063	-0.01847	-0.01659	-0.01493	-0.01347
-.45	0.13410	0.09085	0.04719	0.00306	-0.04158	-0.03674	-0.03244	-0.02864	-0.02531	-0.02241	-0.01989	-0.01770	-0.01580	-0.01415	-0.01271
-.40	0.13082	0.08847	0.04561	0.00217	-0.04189	-0.03661	-0.03196	-0.02793	-0.02445	-0.02146	-0.01890	-0.01671	-0.01483	-0.01321	-0.01182
-.35	0.12746	0.08615	0.04423	0.00159	-0.04183	-0.03606	-0.03108	-0.02683	-0.02323	-0.02020	-0.01764	-0.01549	-0.01366	-0.01211	-0.01C78
-.30	0.12404	0.08397	0.04315	0.00143	-0.04126	-0.03497	-0.02966	-0.02524	-0.02159	-0.01857	-0.01608	-0.01401	-0.01228	-0.01083	-0.00960
-0.25	0.12057	0.08197	0.04247	0.00186	-0.04000	-0.03317	-0.02758	-0.02306	-0.01944	-0.01653	-0.01418	-0.01226	-0.01068	-0.00937	-0.00827
-.20	0.11704	0.08023	0.04235	0.00310	-0.03780	-0.03042	-0.02463	-0.02016	-0.01672	-0.01404	-0.01193	-0.01024	-0.00887	-0.00774	-0.00681
-.15	0.11343	0.07880	0.04298	0.00547	-0.03423	-0.02635	-0.02058	-0.01642	-0.01337	-0.01109	-0.00933	-0.00796	-0.00686	-0.00596	-0.00523
-.10	0.10959	0.07766	0.04456	0.00950	-0.02862	-0.02042	-0.01517	-0.01175	-0.00939	-0.00707	-0.00643	-0.00545	-0.00467	-0.00405	-0.00354
-.05	0.10527	0.07658	0.04710	0.01591	-0.01951	-0.01182	-0.00821	-0.00617	-0.00486	-0.00395	-0.00328	-0.00277	-0.00237	-0.00205	-0.00179
0.00	0.10000	0.07500	0.05000	0.02500	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
.05	0.09473	0.07342	0.05290	0.03409	0.01951	0.01182	0.00821	0.00517	0.00486	0.00395	0.00328	0.00277	0.00237	0.00205	0.00179
.10	0.09041	0.07234	0.05544	0.04050	0.02862	0.02042	0.01517	0.01175	0.00939	0.00770	0.00643	0.00545	0.00467	0.00405	0.00354
.15	0.08657	0.07120	0.05702	0.04453	0.03423	0.02635	0.02058	0.01642	0.01337	0.01109	0.00933	0.00796	0.00686	0.00596	0.00523
.20	0.08296	0.06977	0.05765	0.04690	0.03780	0.03042	0.02463	0.02016	0.01672	0.01404	0.01193	0.01024	0.00887	0.00774	0.00681
0.25	0.07943	0.06803	0.05753	0.04814	0.04000	0.03317	0.02758	0.02306	0.01944	0.01653	0.01418	0.01226	0.01068	0.00937	0.00827
.30	0.07596	0.06603	0.05685	0.04857	0.04126	0.03497	0.02966	0.02524	0.02159	0.01857	0.01608	0.01401	0.01228	0.01083	0.00960
.35	0.07254	0.06385	0.05577	0.04841	0.04183	0.03606	0.03108	0.02683	0.02323	0.02020	0.01764	0.01549	0.01366	0.01211	0.01078
.40	0.06918	0.06153	0.05439	0.04783	0.04189	0.03661	0.03196	0.02793	0.02445	0.02146	0.01890	0.01671	0.01483	0.01321	0.01182
.45	0.06590	0.05915	0.05281	0.04694	0.04158	0.03674	0.03244	0.02864	0.02531	0.02241	0.01989	0.01770	0.01580	0.01415	0.01271
0.50	0.06272	0.05675	0.05110	0.04584	0.04098	0.03657	0.03258	0.02903	0.02587	0.02308	0.02063	0.01847	0.01659	0.01493	0.01347
.55	0.05966	0.05435	0.04931	0.04458	0.04619	0.03615	0.03248	0.02916	0.02618	0.02352	0.02116	0.01906	0.01720	0.01556	0.01410
.60	0.05671	0.05199	0.04748	0.04322	0.03924	0.03556	0.03217	0.02909	0.02629	0.02377	0.02151	0.01948	0.01767	0.01605	0.01461
.65	0.05389	0.04968	0.04564	0.04180	0.03819	0.03483	0.03171	0.02885	0.02623	0.02385	0.02170	0.01976	0.01800	0.01643	0.01501
.70	0.05121	0.04744	0.04381	0.04035	0.03708	0.03400	0.03114	0.02849	0.02604	0.02381	0.02176	0.01991	0.01822	0.01669	0.01531
0.75	0.04865	0.04528	0.04202	0.03889	0.03592	0.03311	0.03047	0.02802	0.02574	0.02365	0.02172	0.01995	0.01834	0.01686	0.01552
.80	0.04623	0.04321	0.04027	0.03744	0.03473	0.03217	0.02975	0.02748	0.02536	0.02340	0.02158	0.01990	0.01836	0.01695	0.01566
.85	0.04394	0.04122	0.03857	0.03601	0.03355	0.03120	0.02897	0.02688	0.02491	0.02307	0.02137	0.01978	0.01832	0.01697	0.01572
.90	0.04177	0.03932	0.03693	0.03461	0.03236	0.03022	0.02817	0.02623	0.02441	0.02269	0.02109	0.01960	0.01821	0.01692	0.01573
.95	0.03972	0.03751	0.03535	0.03324	0.03120	0.02923	0.02735	0.02556	0.02387	0.02227	0.02077	0.01936	0.01804	0.01682	0.01568
1.00	0.03778	0.03579	0.03383	0.03192	0.03005	0.02825	0.02652	0.02487	0.02330	0.02181	0.02040	0.01908	0.01784	0.01668	0.01559

Axial coordi- nate, z	Radial coordinate, r									
	1.55	1.60	1.65	1.70	1.75	1.80	1.85	1.90	1.95	2.00
-1.00	-0.01458	-0.01364	-0.01276	-0.01195	-0.01119	-0.01049	-0.00984	-0.00924	-0.00868	-0.00816
-.95	-0.01463	-0.01365	-0.01274	-0.01190	-0.01112	-0.01040	-0.00974	-0.00912	-0.00856	-0.00803
-.90	-0.01463	-0.01361	-0.01268	-0.01181	-0.01102	-0.01028	-0.00961	-0.00898	-0.00841	-0.00788
-.85	-0.01458	-0.01353	-0.01257	-0.01168	-0.01087	-0.01012	-0.00944	-0.00881	-0.00823	-0.00770
-.80	-0.01447	-0.01339	-0.01240	-0.01150	-0.01068	-0.00992	-0.00923	-0.00860	-0.00802	-0.00749
-0.75	-0.01430	-0.01319	-0.01219	-0.01127	-0.01043	-0.00967	-0.00898	-0.00835	-0.00777	-0.00725
-.70	-0.01406	-0.01293	-0.01191	-0.01098	-0.01014	-0.00938	-0.00869	-0.00806	-0.00749	-0.00697
-.65	-0.01373	-0.01259	-0.01156	-0.01063	-0.00979	-0.00904	-0.00836	-0.00774	-0.00718	-0.00667
-.60	-0.01332	-0.01217	-0.01114	-0.01022	-0.00939	-0.00864	-0.00797	-0.00737	-0.00682	-0.00633
-.55	-0.01281	-0.01166	-0.01064	-0.00973	-0.00892	-0.00820	-0.00754	-0.00696	-0.00643	-0.00596
-0.50	-0.01219	-0.01106	-0.01006	-0.00918	-0.00839	-0.00769	-0.00706	-0.00650	-0.00600	-0.00555
-.45	-0.01146	-0.01036	-0.00940	-0.00855	-0.00780	-0.00713	-0.00654	-0.00601	-0.00553	-0.00511
-.40	-0.01061	-0.00956	-0.00864	-0.00784	-0.00714	-0.00651	-0.00596	-0.00547	-0.00503	-0.00464
-.35	-0.00964	-0.00866	-0.00781	-0.00706	-0.00641	-0.00584	-0.00534	-0.00489	-0.00449	-0.00413
-.30	-0.00855	-0.00766	-0.00688	-0.00621	-0.00563	-0.00512	-0.00467	-0.00427	-0.00392	-0.00360
-0.25	-0.00734	-0.00656	-0.00588	-0.00529	-0.00479	-0.00435	-0.00396	-0.00362	-0.00331	-0.00304
-.20	-0.00603	-0.00537	-0.00480	-0.00432	-0.00390	-0.00353	-0.00321	-0.00293	-0.00268	-0.00246
-.15	-0.00461	-0.00410	-0.00366	-0.00329	-0.00296	-0.00268	-0.00244	-0.00222	-0.00203	-0.00187
-.10	-0.00312	-0.00277	-0.00247	-0.00221	-0.00199	-0.00180	-0.00164	-0.00149	-0.00136	-0.00125
-.05	-0.00158	-0.00140	-0.00124	-0.00111	-0.00100	-0.00091	-0.00082	-0.00075	-0.00068	-0.00063
0.00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
.05	0.00158	0.00140	0.00124	0.00111	0.00100	0.00091	0.00082	0.00075	0.00068	0.00063
.10	0.00312	0.00277	0.00247	0.00221	0.00199	0.00180	0.00164	0.00149	0.00136	0.00125
.15	0.00461	0.00410	0.00366	0.00329	0.00296	0.00268	0.00244	0.00222	0.00203	0.00187
.20	0.00603	0.00537	0.00480	0.00432	0.00390	0.00353	0.00321	0.00293	0.00268	0.00246
0.25	0.00734	0.00656	0.00588	0.00529	0.00479	0.00435	0.00396	0.00362	0.00331	0.00304
.30	0.00855	0.00766	0.00688	0.00621	0.00563	0.00512	0.00467	0.00427	0.00392	0.00360
.35	0.00964	0.00866	0.00781	0.00706	0.00641	0.00584	0.00534	0.00489	0.00449	0.00413
.40	0.01061	0.00956	0.00864	0.00784	0.00714	0.00651	0.00596	0.00547	0.00503	0.00464
.45	0.01146	0.01036	0.00940	0.00855	0.00780	0.00713	0.00654	0.00601	0.00553	0.00511
0.50	0.01219	0.01106	0.01006	0.00918	0.00839	0.00769	0.0076	0.00650	0.00600	0.00555
.55	0.01281	0.01166	0.01164	0.00973	0.00892	0.00820	0.00754	0.00696	0.00643	0.00596
.60	0.01332	0.01217	0.01114	0.01022	0.00939	0.00864	0.00797	0.00737	0.00682	0.00633
.65	0.01373	0.01259	0.01156	0.01063	0.00979	0.00904	0.00836	0.00774	0.00718	0.00667
.70	0.01406	0.01293	0.01191	0.01098	0.01014	0.00938	0.00869	0.00806	0.00749	0.00697
0.75	0.01430	0.01319	0.01219	0.01127	0.01043	0.00967	0.00898	0.00835	0.00777	0.00725
.80	0.01447	0.01339	0.01240	0.01150	0.01068	0.00992	0.00923	0.00860	0.00802	0.00749
.85	0.01458	0.01353	0.01257	0.01168	0.01087	0.01012	0.00944	0.00881	0.00823	0.00770
.90	0.01463	0.01361	0.01268	0.01181	0.01102	0.01028	0.00961	0.00898	0.00841	0.00788
.95	0.01463	0.01365	0.01274	0.01190	0.01112	0.01040	0.00974	0.00912	0.00856	0.00803
1.00	0.01458	0.01364	0.01276	0.01195	0.01119	0.01049	0.00984	0.00924	0.00868	0.00816

TABLE I. - Continued. NONDIMENSIONAL AXIAL FIELD COMPONENT h_z

(d) Increments in axial and radial coordinates, 0.02

Axial coordinate, z	Radial coordinate, r													
	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.24	0.26
-0.50	0.86091	0.84098	0.82119	0.80155	0.78205	0.76268	0.74346	0.72436	0.70540	0.68656	0.66784	0.64925	0.63077	0.61239
-0.48	0.85527	0.83535	0.81558	0.79596	0.77648	0.75716	0.73799	0.71895	0.70005	0.68129	0.66266	0.64415	0.62576	0.60749
-0.46	0.84933	0.82941	0.80965	0.79006	0.77062	0.75135	0.73222	0.71325	0.69443	0.67575	0.65720	0.63879	0.62051	0.60235
-0.44	0.84306	0.82314	0.80340	0.78384	0.76444	0.74522	0.72615	0.70725	0.68851	0.66991	0.65146	0.63316	0.61499	0.59694
-0.42	0.83644	0.81653	0.79681	0.77727	0.75792	0.73875	0.71975	0.70092	0.68226	0.66377	0.64542	0.62723	0.60917	0.59126
-0.40	0.82945	0.80955	0.78985	0.77034	0.75104	0.73192	0.71299	0.69425	0.67568	0.65729	0.63906	0.62098	0.60306	0.58528
-0.38	0.82205	0.80216	0.78248	0.76302	0.74376	0.72471	0.70586	0.68721	0.66874	0.65046	0.63235	0.61441	0.59663	0.57899
-0.36	0.81423	0.79435	0.77469	0.75527	0.73607	0.71709	0.69832	0.67977	0.66142	0.64326	0.62528	0.60748	0.58985	0.57238
-0.34	0.80595	0.78607	0.76644	0.74706	0.72793	0.70902	0.69035	0.67191	0.65368	0.63565	0.61782	0.60018	0.58271	0.56541
-0.32	0.79716	0.77729	0.75770	0.73837	0.71930	0.70049	0.68192	0.66359	0.64550	0.62762	0.60995	0.59248	0.57519	0.55807
-0.30	0.78783	0.76798	0.74842	0.72914	0.71015	0.69144	0.67299	0.65480	0.63685	0.61913	0.60164	0.58435	0.56726	0.55035
-0.28	0.77792	0.75808	0.73856	0.71935	0.70044	0.68184	0.66352	0.64548	0.62769	0.61016	0.59286	0.57577	0.55890	0.54221
-0.26	0.76737	0.74755	0.72807	0.70893	0.69013	0.67164	0.65347	0.63559	0.61800	0.60066	0.58358	0.56672	0.55007	0.53363
-0.24	0.75612	0.73631	0.71689	0.69783	0.67914	0.66080	0.64280	0.62511	0.60772	0.59061	0.57376	0.55715	0.54077	0.52459
-0.22	0.74411	0.72432	0.70495	0.68599	0.66744	0.64926	0.63145	0.61398	0.59682	0.57996	0.56338	0.54705	0.53094	0.51505
-0.20	0.73124	0.71148	0.69218	0.67334	0.65494	0.63695	0.61936	0.60214	0.58525	0.56868	0.55239	0.53636	0.52057	0.50500
-0.18	0.71744	0.69770	0.67849	0.65978	0.64157	0.62381	0.60648	0.58954	0.57296	0.55671	0.54075	0.52507	0.50963	0.49441
-0.16	0.70257	0.68287	0.66376	0.64523	0.62723	0.60975	0.59272	0.57612	0.55989	0.54401	0.52843	0.51313	0.49807	0.48324
-0.14	0.68649	0.66683	0.64786	0.62954	0.61838	0.59467	0.57801	0.56180	0.54599	0.53053	0.51538	0.50050	0.48587	0.47146
-0.12	0.66902	0.64943	0.63063	0.61258	0.59522	0.57847	0.56226	0.54652	0.53119	0.51621	0.50155	0.48716	0.47300	0.45906
-0.10	0.64991	0.63040	0.61184	0.59416	0.57726	0.56102	0.54536	0.53019	0.51542	0.50101	0.48690	0.47305	0.45943	0.44600
-0.08	0.62882	0.60943	0.59122	0.57405	0.55776	0.54219	0.52722	0.51272	0.49863	0.48487	0.47139	0.45815	0.44511	0.43225
-0.06	0.60522	0.58604	0.56838	0.55196	0.53652	0.52183	0.50771	0.49404	0.48074	0.46774	0.45498	0.44242	0.43004	0.41780
-0.04	0.57825	0.55946	0.54276	0.52753	0.51330	0.49976	0.48673	0.47407	0.46170	0.44957	0.43762	0.42583	0.41417	0.40262
-0.02	0.54605	0.52831	0.51360	0.50033	0.48785	0.47586	0.46418	0.45274	0.44147	0.43033	0.41931	0.40837	0.39750	0.38669
0.00	0.50000	0.49000	0.48000	0.47000	0.46000	0.45000	0.44000	0.43000	0.42000	0.41000	0.40000	0.39000	0.38000	0.37000
.20	0.45395	0.45169	0.44640	0.43967	0.43215	0.42414	0.41582	0.40726	0.39853	0.38967	0.38069	0.37163	0.36250	0.35331
.40	0.42175	0.42054	0.41724	0.41247	0.40670	0.40024	0.39327	0.38593	0.37830	0.37043	0.36238	0.35417	0.34583	0.33738
.60	0.39478	0.39396	0.39162	0.38804	0.38348	0.37817	0.37229	0.36596	0.35926	0.35226	0.34502	0.33758	0.32996	0.32220
.80	0.37118	0.37057	0.36878	0.36595	0.36224	0.35781	0.35278	0.34728	0.34137	0.33513	0.32861	0.32185	0.31489	0.30775
0.10	0.35009	0.34960	0.34816	0.34584	0.34274	0.33898	0.33464	0.32981	0.32458	0.31899	0.31310	0.30695	0.30057	0.29400
.12	0.33098	0.33057	0.32937	0.32742	0.32478	0.32153	0.31774	0.31348	0.30881	0.30379	0.29845	0.29284	0.28700	0.28094
.14	0.31351	0.31317	0.31214	0.31046	0.30817	0.30533	0.30199	0.29820	0.29401	0.28947	0.28462	0.27950	0.27413	0.26854
.16	0.29743	0.29713	0.29624	0.29477	0.29277	0.29025	0.28728	0.28388	0.28011	0.27599	0.27157	0.26687	0.26193	0.25676
.18	0.28256	0.28230	0.28151	0.28022	0.27843	0.27619	0.27352	0.27046	0.26704	0.26329	0.25925	0.25493	0.25037	0.24559
0.20	0.26876	0.26852	0.26782	0.26666	0.26506	0.26204	0.25786	0.25475	0.25132	0.24761	0.24364	0.23943	0.23500	
.22	0.25589	0.25568	0.25505	0.25401	0.25256	0.25074	0.24855	0.24602	0.24318	0.24004	0.23662	0.23295	0.22906	0.22495
.24	0.24388	0.24369	0.24311	0.24217	0.24086	0.23920	0.23720	0.23489	0.23228	0.22939	0.22624	0.22285	0.21923	0.21541
.26	0.23263	0.23245	0.23193	0.23107	0.22987	0.22836	0.22653	0.22440	0.22200	0.21934	0.21642	0.21328	0.20993	0.20637
.28	0.22208	0.22192	0.22144	0.22065	0.21956	0.21816	0.21648	0.21452	0.21231	0.20984	0.20714	0.20423	0.20110	0.19779
0.30	0.21217	0.21202	0.21158	0.21086	0.20985	0.20856	0.20701	0.20520	0.20315	0.20087	0.19836	0.19565	0.19274	0.18965
.32	0.20284	0.20271	0.20230	0.20163	0.20070	0.19951	0.19808	0.19641	0.19450	0.19238	0.19005	0.18752	0.18481	0.18193
.34	0.19405	0.19393	0.19356	0.19294	0.19207	0.19098	0.18965	0.18809	0.18632	0.18435	0.18218	0.17982	0.17729	0.17459
.36	0.18577	0.18565	0.18531	0.18473	0.18393	0.18291	0.18168	0.18023	0.17858	0.17674	0.17472	0.17252	0.17015	0.16762
.38	0.17795	0.17784	0.17752	0.17698	0.17624	0.17529	0.17414	0.17279	0.17126	0.16954	0.16765	0.16559	0.16337	0.16101
0.40	0.17055	0.17045	0.17015	0.16966	0.16896	0.16808	0.16701	0.16575	0.16432	0.16271	0.16094	0.15902	0.15694	0.15472
.42	0.16356	0.16347	0.16319	0.16273	0.16208	0.16125	0.16025	0.15908	0.15774	0.15623	0.15458	0.15277	0.15083	0.14874
.44	0.15694	0.15686	0.15660	0.15616	0.15556	0.15478	0.15385	0.15275	0.15149	0.15009	0.14854	0.14684	0.14501	0.14306
.46	0.15067	0.15059	0.15035	0.14994	0.14938	0.14865	0.14778	0.14675	0.14557	0.14425	0.14280	0.14121	0.13949	0.13765
.48	0.14473	0.14465	0.14442	0.14404	0.14352	0.14284	0.14201	0.14105	0.13995	0.13871	0.13734	0.13585	0.13424	0.13251
0.50	0.13909	0.13902	0.13881	0.13845	0.13795	0.13732	0.13654	0.13564	0.13460	0.13344	0.13216	0.13075	0.12923	0.12761

Axial coordinate, z	Radial coordinate, r													
	0.28	0.30	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46	0.48	0.50	0.52	0.54
-0.50	0.59412	0.57595	0.55787	0.53988	0.52198	0.50414	0.48638	0.46869	0.45105	0.43347	0.41594	0.39844	0.38099	0.36356
-0.48	0.56933	0.57127	0.55331	0.53544	0.51766	0.49996	0.48233	0.46477	0.44727	0.42983	0.41244	0.39509	0.37778	0.36050
-0.46	0.58430	0.56636	0.54853	0.53079	0.51314	0.49558	0.47809	0.46067	0.44332	0.42603	0.40879	0.39159	0.37443	0.35730
-0.44	0.57902	0.56121	0.54351	0.52591	0.50841	0.49099	0.47365	0.45639	0.43919	0.42206	0.40497	0.38794	0.37094	0.35398
-0.42	0.57347	0.55580	0.53824	0.52079	0.50344	0.48618	0.46900	0.45190	0.43487	0.41791	0.40099	0.38413	0.36730	0.35051
-0.40	0.56763	0.55011	0.53271	0.51542	0.49823	0.48114	0.46414	0.44721	0.43036	0.41357	0.39683	0.38015	0.36351	0.34690
-0.38	0.56150	0.54414	0.52690	0.50979	0.49277	0.47586	0.45904	0.44230	0.42563	0.40903	0.39249	0.37600	0.35955	0.34314
-0.36	0.55505	0.53786	0.52081	0.50387	0.48705	0.47032	0.45369	0.43715	0.42069	0.40429	0.38795	0.37166	0.35542	0.33921
-0.34	0.54826	0.53126	0.51404	0.49766	0.48104	0.46452	0.44810	0.43176	0.41551	0.39932	0.38320	0.36713	0.35111	0.33512
-0.32	0.54112	0.52432	0.50767	0.49114	0.47473	0.45843	0.44223	0.42612	0.41009	0.39413	0.37824	0.36240	0.34660	0.33085
-0.30	0.53361	0.51703	0.50059	0.48429	0.46811	0.45204	0.43608	0.42021	0.40442	0.38870	0.37305	0.35745	0.34190	0.32639
-0.28	0.52570	0.50935	0.49315	0.47709	0.46116	0.44535	0.42963	0.41402	0.39848	0.38302	0.36763	0.35229	0.33699	0.32174
-0.26	0.51737	0.50127	0.48533	0.46954	0.45387	0.43832	0.42288	0.40753	0.39262	0.37708	0.36195	0.34688	0.33186	0.31688
-0.24	0.50859	0.49278	0.47712	0.46160	0.44622	0.43095	0.41579	0.40073	0.38576	0.37085	0.35602	0.34124	0.32650	0.31191
-0.22	0.49936	0.48384	0.46848	0.45327	0.43819	0.42322	0.40837	0.39361	0.37894	0.36634	0.34981	0.33533	0.32090	0.30651
-0.20	0.48963	0.47443	0.45940	0.44451	0.42976	0.41512	0.40059	0.38616	0.37181	0.35753	0.34332	0.32916	0.31505	0.30097
-0.18	0.47938	0.46454	0.44986	0.43532	0.42092	0.40663	0.39244	0.37835	0.36434	0.35041	0.33653	0.32271	0.30893	0.29519
-0.16	0.46860	0.45414	0.43984	0.42568	0.41164	0.39772	0.38391	0.37018	0.35653	0.34295	0.32943	0.31597	0.30254	0.28915
-0.14	0.45725	0.44320	0.42931	0.41555	0.40192	0.38840	0.37497	0.36163	0.34836	0.33516	0.32201	0.30892	0.29586	0.28284
-0.12	0.44530	0.43171	0.41826	0.40494	0.39173	0.37863	0.36562	0.35268	0.33982	0.32701	0.31426	0.30155	0.28888	0.27624
-0.10	0.43274	0.41964	0.40667	0.39382	0.38107	0.36841	0.35583	0.34333	0.33088	0.31850	0.30616	0.29386	0.28159	0.26935
-0.08	0.41955	0.40697	0.39452	0.38216	0.36990	0.35772	0.34560	0.33355	0.32155	0.30960	0.29769	0.28582	0.27397	0.26215
-0.06	0.40569	0.39369	0.38179	0.36997	0.35822	0.34654	0.33492	0.32334	0.31181	0.30302	0.28886	0.27742	0.26601	0.25462
-0.04	0.39116	0.37978	0.36847	0.35722	0.34602	0.33487	0.32376	0.31269	0.30165	0.29063	0.27964	0.26866	0.25771	0.24677
-0.02	0.37593	0.36522	0.35454	0.34390	0.33328	0.32269	0.31213	0.30158	0.29105	0.28053	0.27002	0.25953	0.24904	0.23856
0.00	0.36000	0.35000	0.34000	0.33000	0.32000	0.31000	0.30000	0.29000	0.28000	0.27000	0.26000	0.25000	0.24000	0.23000
.02	0.34407	0.33478	0.32596	0.31610	0.30672	0.29730	0.28878	0.27842	0.26895	0.25947	0.24998	0.24047	0.23096	0.22144
.04	0.32884	0.32022	0.31153	0.30278	0.29398	0.28513	0.27624	0.26731	0.25835	0.24937	0.24036	0.23134	0.22229	0.21323
.06	0.31431	0.30631	0.29821	0.29003	0.28178	0.27346	0.26508	0.25666	0.24819	0.23968	0.23114	0.22258	0.21399	0.20538
.08	0.30045	0.29303	0.28548	0.27784	0.27010	0.26228	0.25440	0.24645	0.23845	0.23040	0.22231	0.21418	0.20603	0.19785
0.10	0.28726	0.28036	0.27333	0.26618	0.25893	0.25159	0.24417	0.23667	0.22912	0.22150	0.21384	0.20614	0.19841	0.19065
.12	0.27470	0.26829	0.26174	0.25506	0.24827	0.24137	0.23438	0.22732	0.22018	0.21299	0.20574	0.19845	0.19112	0.18376
.14	0.26275	0.25368	0.25069	0.24445	0.23808	0.23160	0.22503	0.21837	0.21164	0.20484	0.19799	0.19108	0.18414	0.17716
.16	0.25140	0.24586	0.24016	0.23432	0.22836	0.22228	0.21609	0.20982	0.20347	0.19705	0.19057	0.18403	0.17746	0.17085
.18	0.24062	0.23546	0.23014	0.22468	0.21908	0.21337	0.20756	0.20165	0.19566	0.18959	0.18347	0.17729	0.17107	0.16481
0.20	0.23037	0.22557	0.22060	0.21549	0.21024	0.20488	0.19941	0.19384	0.18819	0.18247	0.17668	0.17084	0.16495	0.15903
.22	0.22064	0.21616	0.21152	0.20673	0.20181	0.19678	0.19163	0.18639	0.18106	0.17566	0.17019	0.16667	0.15910	0.15349
.24	0.21141	0.20722	0.20288	0.19840	0.19378	0.18905	0.18421	0.17927	0.17424	0.16915	0.16398	0.15876	0.15350	0.14819
.26	0.20263	0.19873	0.19467	0.19046	0.18613	0.18168	0.17712	0.17247	0.16774	0.16292	0.15805	0.15312	0.14814	0.14312
.28	0.19430	0.19065	0.18685	0.18291	0.17884	0.17465	0.17037	0.16598	0.16152	0.15698	0.15237	0.14771	0.14301	0.13826
0.30	0.18639	0.18297	0.17941	0.17571	0.17189	0.16796	0.16392	0.15979	0.15558	0.15130	0.14695	0.14255	0.13810	0.13361
.32	0.17888	0.17568	0.17233	0.16886	0.16527	0.16157	0.15777	0.15388	0.14991	0.14587	0.14176	0.13760	0.13340	0.12915
.34	0.17174	0.16874	0.16560	0.16234	0.15896	0.15548	0.15190	0.14824	0.14449	0.14068	0.13680	0.13287	0.12889	0.12488
.36	0.16495	0.16214	0.15919	0.15613	0.15295	0.14968	0.14631	0.14285	0.13931	0.13571	0.13205	0.12834	0.12458	0.12079
.38	0.15850	0.15586	0.15310	0.15021	0.14723	0.14414	0.14096	0.13770	0.13437	0.13097	0.12751	0.12400	0.12045	0.11686
0.40	0.15237	0.14989	0.14729	0.14458	0.14177	0.13886	0.13586	0.13279	0.12964	0.12643	0.12317	0.11985	0.11669	0.11310
.42	0.14653	0.14420	0.14176	0.13921	0.13656	0.13382	0.13100	0.12810	0.12513	0.12209	0.11901	0.11587	0.11270	0.10949
.44	0.14098	0.13879	0.13649	0.13409	0.13159	0.12901	0.12635	0.12361	0.12081	0.11794	0.11503	0.11206	0.10906	0.10602
.46	0.13570	0.13364	0.13147	0.12921	0.12686	0.12442	0.12191	0.11933	0.11668	0.11397	0.11121	0.10841	0.10557	0.10270
.48	0.13067	0.12873	0.12669	0.12456	0.12234	0.12004	0.11767	0.11523	0.11273	0.11017	0.10756	0.10491	0.10222	0.09950
0.50	0.12588	0.12405	0.12213	0.12012	0.11802	0.11586	0.11362	0.11131	0.10895	0.10653	0.10406	0.10156	0.09901	0.09644

TABLE I. - Continued. NONDIMENSIONAL AXIAL FIELD COMPONENT h_z

(d) Continued. Increments in axial and radial coordinates, 0.02

Axial coordinate, z	Radial coordinate, r												
	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76	0.78	0.80
-0.50 0.34616	0.32878	0.31141	0.29405	0.27670	0.25934	0.24197	0.22458	0.20718	0.18975	0.17230	0.15481	0.13728	0.11970
-0.48 0.34324	0.32601	0.30878	0.29157	0.27435	0.25714	0.23991	0.22266	0.20540	0.18811	0.17078	0.15342	0.13602	0.11857
-0.46 0.34020	0.32312	0.30605	0.28899	0.27193	0.25486	0.23779	0.22069	0.20357	0.18642	0.16924	0.15201	0.13474	0.11742
-0.44 0.33704	0.32012	0.30322	0.28632	0.26942	0.25251	0.23559	0.21866	0.20169	0.18469	0.16766	0.15058	0.13345	0.11626
-0.42 0.33375	0.31700	0.30027	0.28355	0.26682	0.25008	0.23333	0.21656	0.19976	0.18292	0.16605	0.14912	0.13214	0.11510
-0.40 0.33032	0.31376	0.29721	0.28067	0.26412	0.24757	0.23100	0.21440	0.19778	0.18111	0.16440	0.14764	0.13082	0.11393
-0.38 0.32675	0.31039	0.29403	0.27768	0.26133	0.24497	0.22859	0.21218	0.19574	0.17925	0.16272	0.14614	0.12948	0.11276
-0.36 0.32303	0.30687	0.29072	0.27458	0.25843	0.24227	0.22609	0.20989	0.19364	0.17735	0.16101	0.14461	0.12814	0.11159
-0.34 0.31916	0.30322	0.28729	0.27136	0.25543	0.23948	0.22352	0.20752	0.19149	0.17540	0.15926	0.14306	0.12678	0.11042
-0.32 0.31912	0.29941	0.28371	0.26801	0.25231	0.23659	0.22085	0.20508	0.18927	0.17340	0.15748	0.14149	0.12541	0.10925
-0.30 0.31090	0.29544	0.27998	0.26453	0.24907	0.23360	0.21810	0.20256	0.18699	0.17135	0.15566	0.13989	0.12404	0.10809
-0.28 0.30651	0.29130	0.27610	0.26091	0.24571	0.23049	0.21524	0.19996	0.18463	0.16925	0.15380	0.13827	0.12265	0.10693
-0.26 0.30192	0.28699	0.27206	0.25714	0.24221	0.22726	0.21228	0.19727	0.18221	0.16709	0.15190	0.13663	0.12126	0.10579
-0.24 0.29714	0.28249	0.26785	0.25322	0.23857	0.22391	0.20922	0.19449	0.17971	0.16487	0.14996	0.13496	0.11987	0.10466
-0.22 0.29214	0.27780	0.26346	0.24913	0.23478	0.22042	0.20603	0.19160	0.17712	0.16258	0.14797	0.13327	0.11846	0.10353
-0.20 0.28693	0.27290	0.25888	0.24486	0.23084	0.21679	0.20272	0.18861	0.17445	0.16023	0.14593	0.13154	0.11704	0.10243
-0.18 0.28148	0.26778	0.25910	0.24041	0.22672	0.21301	0.19927	0.18550	0.17167	0.15779	0.14382	0.12977	0.11561	0.10133
-0.16 0.28759	0.26244	0.24910	0.23577	0.22243	0.20907	0.19568	0.18226	0.16879	0.15526	0.14165	0.12796	0.11416	0.10023
-0.14 0.26984	0.25686	0.24389	0.23092	0.21794	0.20495	0.19193	0.17888	0.16578	0.15263	0.13941	0.12610	0.11268	0.09914
-0.12 0.26362	0.25102	0.23843	0.22584	0.21325	0.20064	0.18801	0.17535	0.16265	0.14989	0.13707	0.12417	0.11116	0.09804
-0.10 0.25713	0.24493	0.23273	0.22054	0.20834	0.19613	0.18390	0.17165	0.15936	0.14702	0.13462	0.12215	0.10959	0.09692
-0.08 0.25034	0.23855	0.22677	0.21498	0.20320	0.19141	0.17960	0.16776	0.15590	0.14400	0.13205	0.12003	0.10794	0.09576
-0.06 0.24235	0.23188	0.22052	0.20917	0.19781	0.18645	0.17507	0.16368	0.15226	0.14081	0.12933	0.11779	0.10619	0.09452
-0.04 0.23583	0.22491	0.21399	0.20308	0.19216	0.18124	0.17031	0.15937	0.14841	0.13743	0.12643	0.11539	0.10431	0.09317
-0.02 0.22809	0.21762	0.20716	0.19669	0.18623	0.17576	0.16529	0.15482	0.14433	0.13384	0.12333	0.11281	0.10226	0.09168
0.00 0.22000	0.21000	0.20000	0.19000	0.18000	0.17000	0.16000	0.15000	0.14000	0.13000	0.12000	0.11000	0.10000	0.09000
.02 0.21191	0.20238	0.19284	0.18331	0.17377	0.16424	0.15471	0.14518	0.13567	0.12616	0.11667	0.10719	0.09774	0.08832
.04 0.20617	0.19509	0.18601	0.17692	0.16784	0.15876	0.14969	0.14063	0.13159	0.12257	0.11357	0.10461	0.09569	0.08683
.06 0.19675	0.18182	0.17948	0.17083	0.16219	0.15353	0.14943	0.13632	0.12774	0.11919	0.11067	0.10221	0.09381	0.08548
.08 0.18966	0.18145	0.17323	0.16502	0.15680	0.14859	0.14040	0.13224	0.12410	0.11600	0.10795	0.09997	0.09206	0.08424
0.10 0.18287	0.17507	0.16727	0.15946	0.15166	0.14387	0.13610	0.12835	0.12064	0.11298	0.10538	0.09785	0.09041	0.08308
.12 0.17638	0.16898	0.16157	0.15416	0.14675	0.13936	0.13199	0.12465	0.11735	0.11011	0.10293	0.09583	0.08884	0.08196
.14 0.17016	0.16314	0.15611	0.14908	0.14206	0.13505	0.12807	0.12112	0.11422	0.10737	0.10059	0.09390	0.08732	0.08086
.16 0.16421	0.15756	0.15090	0.14423	0.13757	0.13093	0.12432	0.11774	0.11121	0.10474	0.09835	0.09204	0.08584	0.07977
.18 0.15852	0.15222	0.14590	0.13959	0.13328	0.12699	0.12073	0.11450	0.10833	0.10221	0.09618	0.09023	0.08439	0.07867
0.20 0.15307	0.14710	0.14112	0.13514	0.12916	0.12321	0.11728	0.11139	0.10555	0.09977	0.09407	0.08846	0.08296	0.07757
.22 0.14786	0.14220	0.13654	0.13087	0.12522	0.11958	0.11397	0.10840	0.10288	0.09742	0.09203	0.08673	0.08154	0.07667
.24 0.14286	0.13751	0.13215	0.12678	0.12143	0.11609	0.11078	0.10551	0.10029	0.09513	0.09004	0.08504	0.08013	0.07534
.26 0.13808	0.13301	0.12794	0.12286	0.11779	0.11274	0.10772	0.10273	0.09779	0.09291	0.08810	0.08337	0.07874	0.07421
.28 0.13349	0.12870	0.12390	0.11909	0.11429	0.10951	0.10476	0.10004	0.09537	0.09075	0.08620	0.08173	0.07735	0.07307
0.30 0.12910	0.12456	0.12002	0.11547	0.11093	0.10640	0.10190	0.09744	0.09301	0.08865	0.08434	0.08011	0.07596	0.07191
.32 0.12488	0.12059	0.11629	0.11199	0.10769	0.10341	0.09915	0.09492	0.09073	0.08660	0.08252	0.07851	0.07459	0.07075
.34 0.12084	0.11678	0.11271	0.10864	0.10457	0.10052	0.09648	0.09248	0.08851	0.08460	0.08074	0.07694	0.07322	0.06958
.36 0.11697	0.11313	0.10928	0.10542	0.10157	0.09773	0.09391	0.09011	0.08636	0.08265	0.07899	0.07539	0.07186	0.06841
.38 0.11325	0.10961	0.10597	0.10232	0.09867	0.09503	0.09141	0.08782	0.08426	0.08075	0.07728	0.07386	0.07052	0.06724
0.40 0.10968	0.10624	0.10279	0.09933	0.09588	0.09243	0.08900	0.08560	0.08222	0.07889	0.07560	0.07236	0.06918	0.06607
.42 0.10625	0.10300	0.09973	0.09645	0.09318	0.08992	0.08667	0.08344	0.08024	0.07708	0.07395	0.07088	0.06786	0.06490
.44 0.10296	0.09988	0.09678	0.09368	0.09058	0.08749	0.08441	0.08134	0.07831	0.07531	0.07234	0.06942	0.06655	0.06374
.46 0.09980	0.09688	0.09395	0.09101	0.08807	0.08514	0.08221	0.07931	0.07643	0.07358	0.07076	0.06799	0.06526	0.06258
.48 0.09676	0.09399	0.09122	0.08843	0.08565	0.08286	0.08009	0.07734	0.07460	0.07189	0.06922	0.06658	0.06398	0.06143
0.50 0.09384	0.09122	0.08859	0.08595	0.08330	0.08066	0.07803	0.07542	0.07282	0.07025	0.06770	0.06519	0.06272	0.06030

Axial coordinate, z	Radial coordinate, r													
	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.02	1.04	1.06	1.08	1.10
-0.50	0.10208	0.08441	0.06668	0.04890	0.03105	0.01315	-0.00483	-0.02287	-0.04098	-0.03917	-0.03741	-0.03574	-0.03413	-0.03258
-0.48	0.10106	0.08350	0.06589	0.04820	0.03046	0.01264	-0.00525	-0.02321	-0.04125	-0.03936	-0.03755	-0.03581	-0.03415	-0.03256
-0.46	0.10004	0.08260	0.06510	0.04752	0.02988	0.01216	-0.00564	-0.02352	-0.04148	-0.03952	-0.03764	-0.03584	-0.03413	-0.03249
-0.44	0.09902	0.08170	0.06432	0.04686	0.02932	0.01170	-0.00606	-0.02379	-0.04166	-0.03963	-0.03768	-0.03583	-0.03406	-0.03237
-0.42	0.09799	0.08081	0.06356	0.04622	0.02880	0.01129	-0.00632	-0.02401	-0.04180	-0.03969	-0.03768	-0.03576	-0.03393	-0.03220
-0.40	0.09697	0.07994	0.06282	0.04561	0.02831	0.01091	-0.00659	-0.02419	-0.04189	-0.03970	-0.03761	-0.03563	-0.03375	-0.03196
-0.38	0.09596	0.07908	0.06210	0.04503	0.02786	0.01058	-0.00681	-0.02431	-0.04192	-0.03965	-0.03748	-0.03543	-0.03349	-0.03166
-0.36	0.09496	0.07823	0.06141	0.04449	0.02745	0.01030	-0.00697	-0.02436	-0.04188	-0.03952	-0.03728	-0.03516	-0.03317	-0.03129
-0.34	0.09397	0.07742	0.06076	0.04399	0.02710	0.01008	-0.00707	-0.02435	-0.04176	-0.03931	-0.03700	-0.03482	-0.03277	-0.03084
-0.32	0.09299	0.07663	0.06014	0.04354	0.02680	0.00993	-0.00709	-0.02425	-0.04156	-0.03902	-0.03662	-0.03438	-0.03227	-0.03030
-0.30	0.09204	0.07587	0.05957	0.04315	0.02657	0.00985	-0.00702	-0.02406	-0.04126	-0.03863	-0.03615	-0.03383	-0.03167	-0.02966
-0.28	0.09110	0.07515	0.05906	0.04282	0.02642	0.00987	-0.00686	-0.02377	-0.04085	-0.03812	-0.03556	-0.03318	-0.03097	-0.02892
-0.26	0.09020	0.07447	0.05860	0.04256	0.02636	0.00998	-0.00659	-0.02336	-0.04032	-0.03749	-0.03485	-0.03240	-0.03014	-0.02806
-0.24	0.08932	0.07384	0.05820	0.04240	0.02640	0.01021	-0.00619	-0.02281	-0.03965	-0.03671	-0.03399	-0.03148	-0.02917	-0.02706
-0.22	0.08848	0.07327	0.05789	0.04232	0.02655	0.01057	-0.00656	-0.02211	-0.03881	-0.03577	-0.03296	-0.03040	-0.02806	-0.02592
-0.20	0.08767	0.07275	0.05765	0.04235	0.02683	0.01107	-0.00494	-0.02123	-0.03780	-0.03464	-0.03176	-0.02914	-0.02677	-0.02463
-0.18	0.08690	0.07230	0.05751	0.04250	0.02726	0.01175	-0.00405	-0.02015	-0.03656	-0.03330	-0.03034	-0.02767	-0.02529	-0.02316
-0.16	0.08616	0.07191	0.05747	0.04279	0.02785	0.01262	-0.00293	-0.01883	-0.03508	-0.03170	-0.02867	-0.02598	-0.02360	-0.02149
-0.14	0.08546	0.07160	0.05753	0.04322	0.02863	0.01372	-0.00156	-0.01722	-0.03331	-0.02981	-0.02673	-0.02403	-0.02167	-0.01962
-0.12	0.08478	0.07134	0.05770	0.04380	0.02961	0.01507	0.00012	-0.01529	-0.03118	-0.02758	-0.02445	-0.02177	-0.01948	-0.01752
-0.10	0.08412	0.07115	0.05798	0.04456	0.03083	0.01672	0.00216	-0.01294	-0.02862	-0.02492	-0.02179	-0.01918	-0.01700	-0.01517
-0.08	0.08345	0.07099	0.05835	0.04547	0.03228	0.01870	0.00462	-0.01010	-0.02553	-0.02174	-0.01866	-0.01619	-0.01420	-0.01257
-0.06	0.08275	0.07085	0.05879	0.04653	0.03398	0.02105	0.00759	-0.00661	-0.02174	-0.01791	-0.01498	-0.01277	-0.01107	-0.00972
-0.04	0.08197	0.07067	0.05926	0.04769	0.03590	0.02378	0.01116	-0.00228	-0.01697	-0.01319	-0.01065	-0.00889	-0.00761	-0.00664
-0.02	0.08107	0.07042	0.05969	0.04889	0.03796	0.02683	0.01537	0.00321	-0.01064	-0.00729	-0.00560	-0.00458	-0.00389	-0.00337
0.00	0.08000	0.07000	0.06000	0.05000	0.04000	0.03000	0.02000	0.01000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
.02	0.07893	0.06958	0.06031	0.05111	0.04204	0.03317	0.02463	0.01679	0.01064	0.00729	0.00560	0.00458	0.00389	0.00337
.04	0.07803	0.06933	0.06074	0.05231	0.04410	0.03622	0.02884	0.02228	0.01697	0.01319	0.01065	0.00889	0.00761	0.00664
.06	0.07725	0.06915	0.06121	0.05347	0.04602	0.03895	0.03241	0.02661	0.02174	0.01791	0.01498	0.01277	0.01107	0.00972
.08	0.07655	0.06901	0.06165	0.05453	0.04772	0.04130	0.03538	0.03010	0.02553	0.02174	0.01866	0.01619	0.01420	0.01257
.10	0.07588	0.06885	0.06202	0.05544	0.04917	0.04328	0.03784	0.03294	0.02862	0.02492	0.02179	0.01918	0.01700	0.01517
.12	0.07522	0.06866	0.06230	0.05620	0.05039	0.04493	0.03988	0.03529	0.03118	0.02758	0.02445	0.02177	0.01948	0.01752
.14	0.07454	0.06840	0.06247	0.05678	0.05137	0.04628	0.04156	0.03722	0.03331	0.02981	0.02673	0.02403	0.02167	0.01962
.16	0.07384	0.06809	0.06253	0.05721	0.05215	0.04738	0.04293	0.03883	0.03508	0.03170	0.02867	0.02598	0.02360	0.02149
.18	0.07310	0.06770	0.06249	0.05750	0.05274	0.04825	0.04405	0.03656	0.03330	0.03034	0.02767	0.02529	0.02316	
.20	0.07233	0.06725	0.06235	0.05765	0.05217	0.04893	0.04494	0.04123	0.03780	0.03464	0.03176	0.02914	0.02677	0.02463
.22	0.07152	0.06673	0.06211	0.05768	0.05345	0.04943	0.04565	0.04211	0.03881	0.03577	0.03296	0.03040	0.02806	0.02592
.24	0.07068	0.06616	0.06180	0.05760	0.05360	0.04979	0.04619	0.04281	0.03965	0.03671	0.03399	0.03148	0.02917	0.02706
.26	0.06980	0.06553	0.06140	0.05744	0.05364	0.05002	0.04659	0.04336	0.04032	0.03749	0.03485	0.03240	0.03014	0.02836
.28	0.06890	0.06485	0.06094	0.05718	0.05358	0.05013	0.04686	0.04377	0.04085	0.03812	0.03556	0.03318	0.03097	0.02892
.30	0.06796	0.06413	0.06043	0.05685	0.05343	0.05015	0.04702	0.04406	0.04126	0.03863	0.03615	0.03383	0.03167	0.02966
.32	0.06701	0.06337	0.05986	0.05646	0.05320	0.05007	0.04709	0.04425	0.04156	0.03902	0.03662	0.03438	0.03227	0.03030
.34	0.06603	0.06258	0.05924	0.05601	0.05290	0.04992	0.04707	0.04435	0.04176	0.03931	0.03700	0.03482	0.03277	0.03084
.36	0.06504	0.06177	0.05859	0.05551	0.05255	0.04970	0.04697	0.04436	0.04188	0.03952	0.03728	0.03517	0.03317	0.03129
.38	0.06404	0.06092	0.05790	0.05497	0.05214	0.04942	0.04681	0.04431	0.04192	0.03965	0.03748	0.03543	0.03349	0.03166
.40	0.06303	0.06006	0.05718	0.05439	0.05169	0.04909	0.04659	0.04419	0.04189	0.03970	0.03761	0.03563	0.03375	0.03196
.42	0.06201	0.05919	0.05644	0.05378	0.05120	0.04871	0.04632	0.04401	0.04180	0.03969	0.03768	0.03576	0.03393	0.03220
.44	0.06098	0.05830	0.05568	0.05314	0.05068	0.04830	0.04600	0.04379	0.04166	0.03963	0.03768	0.03583	0.03406	0.03237
.46	0.05996	0.05740	0.05490	0.05248	0.05012	0.04784	0.04564	0.04352	0.04148	0.03952	0.03764	0.03584	0.03413	0.03249
.48	0.05894	0.05650	0.05411	0.05180	0.04954	0.04736	0.04525	0.04321	0.04125	0.03936	0.03755	0.03581	0.03415	0.03256
.50	0.05792	0.05559	0.05332	0.05110	0.04895	0.04685	0.04483	0.04287	0.04098	0.03917	0.03741	0.03574	0.03413	0.03258

TABLE I. - Concluded. NONDIMENSIONAL AXIAL FIELD COMPONENT h_z

(d) Concluded. Increments in axial and radial coordinates, 0.02

Axial coordinate, z	Radial coordinate, r													
	1.12	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34	1.36	1.38
-0.50	-0.03111	-0.02970	-0.02836	-0.02709	-0.02587	-0.02471	-0.02361	-0.02256	-0.02157	-0.02063	-0.01973	-0.01888	-0.01808	-0.01731
-48	-0.03104	-0.02960	-0.02823	-0.02692	-0.02568	-0.02450	-0.02338	-0.02232	-0.02131	-0.02036	-0.01946	-0.01860	-0.01779	-0.01702
-46	-0.03093	-0.02945	-0.02804	-0.02671	-0.02544	-0.02424	-0.02311	-0.02203	-0.02102	-0.02005	-0.01914	-0.01828	-0.01747	-0.01670
-44	-0.03077	-0.02925	-0.02781	-0.02645	-0.02516	-0.02394	-0.02279	-0.02171	-0.02068	-0.01971	-0.01880	-0.01793	-0.01712	-0.01635
-42	-0.03056	-0.02900	-0.02753	-0.02614	-0.02483	-0.02360	-0.02243	-0.02134	-0.02030	-0.01933	-0.01841	-0.01755	-0.01673	-0.01597
-0.40	-0.03028	-0.02869	-0.02719	-0.02578	-0.02445	-0.02320	-0.02202	-0.02092	-0.01988	-0.01890	-0.01799	-0.01712	-0.01631	-0.01555
-38	-0.02994	-0.02832	-0.02679	-0.02536	-0.02401	-0.02275	-0.02156	-0.02045	-0.01941	-0.01843	-0.01752	-0.01666	-0.01585	-0.01510
-36	-0.02953	-0.02787	-0.02632	-0.02487	-0.02351	-0.02223	-0.02104	-0.01993	-0.01889	-0.01792	-0.01701	-0.01616	-0.01536	-0.01461
-34	-0.02904	-0.02735	-0.02578	-0.02431	-0.02294	-0.02166	-0.02047	-0.01936	-0.01832	-0.01736	-0.01645	-0.01561	-0.01483	-0.01409
-32	-0.02846	-0.02675	-0.02516	-0.02368	-0.02230	-0.02102	-0.01983	-0.01873	-0.01770	-0.01674	-0.01585	-0.01502	-0.01425	-0.01353
-0.30	-0.02779	-0.02606	-0.02445	-0.02296	-0.02159	-0.02031	-0.01913	-0.01803	-0.01702	-0.01608	-0.01520	-0.01439	-0.01364	-0.01293
-28	-0.02702	-0.02527	-0.02366	-0.02217	-0.02079	-0.01952	-0.01836	-0.01728	-0.01628	-0.01536	-0.01451	-0.01371	-0.01298	-0.01230
-26	-0.02614	-0.02438	-0.02276	-0.02128	-0.01991	-0.01866	-0.01751	-0.01646	-0.01548	-0.01458	-0.01376	-0.01299	-0.01228	-0.01163
-24	-0.02513	-0.02337	-0.02176	-0.02029	-0.01894	-0.01772	-0.01659	-0.01557	-0.01462	-0.01376	-0.01296	-0.01222	-0.01154	-0.01092
-22	-0.02399	-0.02223	-0.02064	-0.01920	-0.01788	-0.01669	-0.01560	-0.01461	-0.01370	-0.01287	-0.01211	-0.01141	-0.01076	-0.01017
-0.20	-0.02270	-0.02097	-0.01940	-0.01799	-0.01672	-0.01557	-0.01453	-0.01358	-0.01272	-0.01193	-0.01121	-0.01055	-0.00994	-0.00938
-18	-0.02126	-0.01956	-0.01804	-0.01668	-0.01546	-0.01436	-0.01337	-0.01248	-0.01167	-0.01093	-0.01026	-0.00964	-0.00908	-0.00856
-16	-0.01964	-0.01799	-0.01654	-0.01525	-0.01410	-0.01307	-0.01214	-0.01131	-0.01056	-0.00988	-0.00926	-0.00870	-0.00818	-0.00771
-14	-0.01783	-0.01627	-0.01490	-0.01370	-0.01263	-0.01168	-0.01083	-0.01007	-0.00939	-0.00877	-0.00822	-0.00771	-0.00724	-0.00682
-12	-0.01584	-0.01438	-0.01312	-0.01202	-0.01106	-0.01021	-0.00945	-0.00877	-0.00817	-0.00762	-0.00713	-0.00668	-0.00628	-0.00590
-0.10	-0.01364	-0.01233	-0.01121	-0.01024	-0.00939	-0.00865	-0.00800	-0.00741	-0.00689	-0.00643	-0.00601	-0.00562	-0.00528	-0.00496
-08	-0.01123	-0.01011	-0.00916	-0.00834	-0.00764	-0.00702	-0.00648	-0.00600	-0.00557	-0.00519	-0.00485	-0.00454	-0.00426	-0.00400
-06	-0.00863	-0.00774	-0.00699	-0.00635	-0.00580	-0.00533	-0.00491	-0.00454	-0.00422	-0.00392	-0.00366	-0.00342	-0.00321	-0.00302
-04	-0.00587	-0.00524	-0.00472	-0.00428	-0.00391	-0.00358	-0.00330	-0.00305	-0.00283	-0.00263	-0.00245	-0.00229	-0.00215	-0.00202
-02	-0.00297	-0.00264	-0.00238	-0.00215	-0.00196	-0.00180	-0.00165	-0.00153	-0.00142	-0.00132	-0.00123	-0.00115	-0.00108	-0.00101
0.00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
.02	0.00297	0.02664	0.0238	0.0215	0.0196	0.0180	0.0165	0.0153	0.0142	0.0132	0.0123	0.0115	0.0108	0.0101
.04	0.00587	0.00524	0.00472	0.00428	0.00391	0.00358	0.00330	0.00305	0.00283	0.00263	0.00245	0.00229	0.00215	0.00202
.06	0.00863	0.00774	0.00699	0.00635	0.00580	0.00533	0.00491	0.00454	0.00422	0.00392	0.00366	0.00342	0.00321	0.00302
.08	0.01123	0.01011	0.00916	0.00834	0.00764	0.00702	0.00648	0.00600	0.00557	0.00519	0.00485	0.00454	0.00426	0.00400
0.10	0.01364	0.01233	0.01121	0.01024	0.00939	0.00865	0.00800	0.00741	0.00689	0.00643	0.00601	0.00562	0.00528	0.00496
.12	0.01584	0.01438	0.01312	0.01202	0.01106	0.01021	0.00945	0.00877	0.00817	0.00762	0.00713	0.00668	0.00628	0.00590
.14	0.01783	0.01627	0.01490	0.01370	0.01263	0.01168	0.01083	0.01007	0.00939	0.00877	0.00822	0.00771	0.00724	0.00682
.16	0.01964	0.01799	0.01654	0.01525	0.01410	0.01307	0.01214	0.01131	0.01056	0.00988	0.00926	0.00870	0.00818	0.00771
.18	0.02126	0.01956	0.01804	0.01668	0.01546	0.01436	0.01337	0.01248	0.01167	0.01093	0.01026	0.00964	0.00908	0.00856
0.20	0.02270	0.02097	0.01940	0.01799	0.01672	0.01557	0.01453	0.01358	0.01272	0.01193	0.01121	0.01055	0.00994	0.00938
.22	0.02399	0.02223	0.02064	0.01920	0.01788	0.01669	0.01560	0.01461	0.01370	0.01287	0.01211	0.01141	0.01076	0.01017
.24	0.02513	0.02337	0.02176	0.02029	0.01894	0.01772	0.01659	0.01557	0.01462	0.01376	0.01296	0.01222	0.01154	0.01092
.26	0.02614	0.02438	0.02276	0.02128	0.01991	0.01866	0.01751	0.01646	0.01548	0.01458	0.01376	0.01299	0.01228	0.01163
.28	0.02702	0.02527	0.02366	0.02217	0.02079	0.01952	0.01836	0.01728	0.01628	0.01536	0.01451	0.01371	0.01298	0.01230
0.30	0.02779	0.02606	0.02445	0.02296	0.02159	0.02031	0.01913	0.01803	0.01702	0.01608	0.01520	0.01439	0.01364	0.01293
.32	0.02846	0.02675	0.02516	0.02368	0.02230	0.02102	0.01983	0.01873	0.01770	0.01674	0.01585	0.01502	0.01425	0.01353
.34	0.02904	0.02735	0.02578	0.02431	0.02294	0.02166	0.02047	0.01936	0.01832	0.01736	0.01645	0.01561	0.01483	0.01409
.36	0.02953	0.02787	0.02632	0.02487	0.02351	0.02223	0.02104	0.01993	0.01889	0.01792	0.01701	0.01616	0.01536	0.01461
.38	0.02994	0.02832	0.02679	0.02536	0.02401	0.02275	0.02156	0.02045	0.01941	0.01843	0.01752	0.01666	0.01585	0.01510
0.40	0.03028	0.02869	0.02719	0.02578	0.02445	0.02320	0.02202	0.02092	0.01988	0.01890	0.01799	0.01712	0.01631	0.01555
.42	0.03056	0.02900	0.02753	0.02614	0.02483	0.02360	0.02243	0.02134	0.02030	0.01933	0.01841	0.01755	0.01673	0.01597
.44	0.03077	0.02925	0.02781	0.02645	0.02516	0.02394	0.02279	0.02171	0.02068	0.01971	0.01880	0.01793	0.01712	0.01635
.46	0.03093	0.02945	0.02804	0.02671	0.02544	0.02424	0.02311	0.02203	0.02102	0.02005	0.01914	0.01828	0.01747	0.01670
.48	0.03104	0.02960	0.02823	0.02692	0.02568	0.02450	0.02338	0.02232	0.02131	0.02036	0.01946	0.01860	0.01779	0.01702
0.50	0.03111	0.02970	0.02836	0.02709	0.02587	0.02471	0.02361	0.02256	0.02157	0.02063	0.01973	0.01888	0.01808	0.01731

Axial coordi- nate, z	Radial coordinate, r													
	1.40	1.42	1.44	1.46	1.48	1.50	1.52	1.54	1.56	1.58	1.60	1.62	1.64	1.66
-0.50	-0.01659	-0.01590	-0.01524	-0.01462	-0.01403	-0.01347	-0.01294	-0.01243	-0.01195	-0.01150	-0.01106	-0.01065	-0.01025	-0.00988
-0.48	-0.01629	-0.01560	-0.01495	-0.01433	-0.01374	-0.01318	-0.01266	-0.01215	-0.01168	-0.01122	-0.01079	-0.01038	-0.00999	-0.00962
-0.46	-0.01597	-0.01528	-0.01463	-0.01401	-0.01343	-0.01288	-0.01235	-0.01185	-0.01138	-0.01093	-0.01051	-0.01011	-0.00972	-0.00936
-0.44	-0.01562	-0.01494	-0.01429	-0.01367	-0.01309	-0.01255	-0.01203	-0.01154	-0.01107	-0.01063	-0.01021	-0.00981	-0.00943	-0.00908
-0.42	-0.01524	-0.01456	-0.01392	-0.01331	-0.01274	-0.01219	-0.01168	-0.01120	-0.01074	-0.01030	-0.00989	-0.00950	-0.00913	-0.00878
-0.40	-0.01483	-0.01416	-0.01352	-0.01292	-0.01235	-0.01182	-0.01132	-0.01084	-0.01039	-0.00996	-0.00956	-0.00918	-0.00882	-0.00848
-0.38	-0.01439	-0.01372	-0.01309	-0.01250	-0.01195	-0.01142	-0.01093	-0.01046	-0.01002	-0.00961	-0.00921	-0.00884	-0.00849	-0.00816
-0.36	-0.01391	-0.01325	-0.01264	-0.01206	-0.01151	-0.01100	-0.01052	-0.01006	-0.00963	-0.00923	-0.00885	-0.00849	-0.00814	-0.00782
-0.34	-0.01340	-0.01276	-0.01215	-0.01159	-0.01106	-0.01056	-0.01009	-0.00965	-0.00923	-0.00884	-0.00847	-0.00812	-0.00779	-0.00747
-0.32	-0.01286	-0.01223	-0.01164	-0.01109	-0.01057	-0.01009	-0.00963	-0.00921	-0.00880	-0.00843	-0.00807	-0.00773	-0.00741	-0.00711
-0.30	-0.01228	-0.01167	-0.01110	-0.01057	-0.01007	-0.00960	-0.00916	-0.00875	-0.00836	-0.00800	-0.00766	-0.00733	-0.00703	-0.00674
-0.28	-0.01167	-0.01108	-0.01053	-0.01001	-0.00953	-0.00908	-0.00866	-0.00827	-0.00790	-0.00755	-0.00723	-0.00692	-0.00663	-0.00636
-0.26	-0.01102	-0.01045	-0.00992	-0.00943	-0.00898	-0.00855	-0.00815	-0.00777	-0.00742	-0.00709	-0.00678	-0.00649	-0.00622	-0.00596
-0.24	-0.01033	-0.00980	-0.00929	-0.00883	-0.00839	-0.00799	-0.00761	-0.00726	-0.00693	-0.00662	-0.00632	-0.00605	-0.00579	-0.00555
-0.22	-0.00962	-0.00911	-0.00864	-0.00820	-0.00779	-0.00741	-0.00706	-0.00672	-0.00641	-0.00612	-0.00585	-0.00560	-0.00536	-0.00513
-0.20	-0.00887	-0.00839	-0.00795	-0.00754	-0.00716	-0.00681	-0.00648	-0.00617	-0.00589	-0.00562	-0.00537	-0.00513	-0.00491	-0.00470
-0.18	-0.00808	-0.00765	-0.00724	-0.00686	-0.00651	-0.00619	-0.00589	-0.00561	-0.00534	-0.00510	-0.00487	-0.00465	-0.00445	-0.00426
-0.16	-0.00727	-0.00687	-0.00650	-0.00616	-0.00585	-0.00555	-0.00528	-0.00502	-0.00479	-0.00456	-0.00436	-0.00416	-0.00398	-0.00381
-0.14	-0.00643	-0.00607	-0.00574	-0.00544	-0.00516	-0.00490	-0.00465	-0.00443	-0.00422	-0.00402	-0.00384	-0.00366	-0.00350	-0.00335
-0.12	-0.00556	-0.00525	-0.00496	-0.00470	-0.00445	-0.00423	-0.00402	-0.00382	-0.00364	-0.00347	-0.00331	-0.00316	-0.00302	-0.00289
-0.10	-0.00467	-0.00441	-0.00417	-0.00394	-0.00374	-0.00354	-0.00337	-0.00320	-0.00305	-0.00290	-0.00277	-0.00264	-0.00253	-0.00242
-0.08	-0.00376	-0.00355	-0.00335	-0.00317	-0.00300	-0.00285	-0.00271	-0.00257	-0.00245	-0.00233	-0.00222	-0.00212	-0.00203	-0.00194
-0.06	-0.00284	-0.00268	-0.00253	-0.00239	-0.00226	-0.00214	-0.00204	-0.00194	-0.00184	-0.00175	-0.00167	-0.00160	-0.00152	-0.00146
-0.04	-0.00190	-0.00179	-0.00169	-0.00160	-0.00151	-0.00143	-0.00136	-0.00129	-0.00123	-0.00117	-0.00112	-0.00107	-0.00102	-0.00097
-0.02	-0.00095	-0.00089	-0.00084	-0.00080	-0.00075	-0.00072	-0.00068	-0.00064	-0.00061	-0.00058	-0.00056	-0.00053	-0.00048	.
0.00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
.02	0.00095	0.00089	0.00084	0.00080	0.00075	0.00072	0.00068	0.00064	0.00061	0.00058	0.00056	0.00053	0.00051	0.00048
.04	0.00190	0.00179	0.00169	0.00160	0.00151	0.00143	0.00136	0.00129	0.00123	0.00117	0.00112	0.00107	0.00102	0.00097
.06	0.00284	0.00268	0.00253	0.00239	0.00226	0.00214	0.00204	0.00194	0.00184	0.00175	0.00167	0.00160	0.00152	0.00146
.08	0.00376	0.00355	0.00335	0.00317	0.00300	0.00285	0.00271	0.00257	0.00245	0.00233	0.00222	0.00212	0.00203	0.00194
0.10	0.00467	0.00441	0.00417	0.00394	0.00374	0.00354	0.00337	0.00320	0.00305	0.00290	0.00277	0.00264	0.00253	0.00242
.12	0.00556	0.00525	0.00496	0.00470	0.00445	0.00423	0.00402	0.00382	0.00364	0.00347	0.00331	0.00316	0.00302	0.00289
.14	0.00643	0.00607	0.00574	0.00544	0.00516	0.00490	0.00465	0.00443	0.00422	0.00402	0.00384	0.00366	0.00350	0.00335
.16	0.00727	0.00687	0.00650	0.00616	0.00585	0.00555	0.00528	0.00502	0.00479	0.00456	0.00436	0.00416	0.00398	0.00381
.18	0.00808	0.00765	0.00724	0.00686	0.00651	0.00619	0.00589	0.00561	0.00534	0.00510	0.00487	0.00465	0.00445	0.00426
0.20	0.00887	0.00839	0.00795	0.00754	0.00716	0.00681	0.00648	0.00617	0.00589	0.00562	0.00537	0.00513	0.00491	0.00470
.22	0.00962	0.00911	0.00864	0.00820	0.00779	0.00741	0.00706	0.00672	0.00641	0.00612	0.00585	0.00560	0.00536	0.00513
.24	0.01033	0.00980	0.00929	0.00883	0.00839	0.00799	0.00761	0.00726	0.00693	0.00662	0.00632	0.00605	0.00579	0.00555
.26	0.01102	0.01045	0.00992	0.00943	0.00898	0.00855	0.00815	0.00777	0.00742	0.00709	0.00678	0.00649	0.00622	0.00596
.28	0.01167	0.01108	0.01053	0.01001	0.00953	0.00908	0.00866	0.00827	0.00790	0.00755	0.00723	0.00692	0.00663	0.00636
0.30	0.01228	0.01167	0.01110	0.01057	0.01007	0.00960	0.00916	0.00875	0.00836	0.00800	0.00766	0.00733	0.00703	0.00674
.32	0.01286	0.01223	0.01164	0.01109	0.01057	0.01009	0.00963	0.00921	0.00880	0.00843	0.00807	0.00773	0.00741	0.00711
.34	0.01340	0.01276	0.01215	0.01159	0.01106	0.01056	0.01009	0.00965	0.00923	0.00884	0.00847	0.00812	0.00779	0.00747
.36	0.01391	0.01325	0.01264	0.01206	0.01151	0.01100	0.01052	0.01006	0.00963	0.00923	0.00885	0.00849	0.00814	0.00782
.38	0.01439	0.01372	0.01309	0.01250	0.01195	0.01142	0.01093	0.01046	0.01002	0.00961	0.00921	0.00884	0.00849	0.00816
0.40	0.01483	0.01416	0.01352	0.01292	0.01235	0.01182	0.01132	0.01084	0.01039	0.00996	0.00956	0.00918	0.00882	0.00848
.42	0.01524	0.01456	0.01392	0.01331	0.01274	0.01219	0.01168	0.01120	0.01074	0.01030	0.00989	0.00950	0.00913	0.00878
.44	0.01562	0.01494	0.01429	0.01367	0.01309	0.01255	0.01203	0.01154	0.01107	0.01063	0.01021	0.00981	0.00943	0.00908
.46	0.01597	0.01528	0.01463	0.01401	0.01343	0.01288	0.01235	0.01185	0.01138	0.01093	0.01051	0.01011	0.00972	0.00936
.48	0.01629	0.01560	0.01495	0.01433	0.01374	0.01318	0.01266	0.01215	0.01168	0.01122	0.01079	0.01038	0.00999	0.00962
0.50	0.01659	0.01590	0.01524	0.01462	0.01403	0.01347	0.01294	0.01243	0.01195	0.01150	0.01106	0.01065	0.01025	0.00988

TABLE II. - NONDIMENSIONAL RADIAL FIELD COMPONENT h_r

(a) Increments in axial and radial coordinates, 0.5

Axial coordinate, z	Radial coordinate, r															
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
0.0	0.00000	0.19105	0.13241	0.04174	0.02216	0.01385	0.00950	0.00693	0.00528	0.00416	0.00336	0.00278	0.00233	0.00198	0.00171	0.00149
0.5	0.00000	0.05373	0.05433	0.03282	0.01975	0.01294	0.00908	0.00671	0.00515	0.00408	0.00331	0.00274	0.00230	0.00196	0.00169	0.00148
1.0	0.00000	0.01765	0.02427	0.02026	0.01484	0.01076	0.00799	0.00611	0.00480	0.00386	0.00316	0.00264	0.00223	0.00191	0.00166	0.00145
1.5	0.00000	0.00796	0.01200	0.01208	0.01032	0.00832	0.00662	0.00530	0.00429	0.00353	0.00294	0.00248	0.00212	0.00183	0.00159	0.00140
2.0	0.00000	0.00397	0.00654	0.00738	0.00705	0.00621	0.00528	0.00444	0.00373	0.00314	0.00267	0.00229	0.00198	0.00173	0.00152	0.00134
2.5	0.00000	0.00222	0.00387	0.00470	0.00485	0.00458	0.00413	0.00363	0.00316	0.00274	0.00238	0.00208	0.00182	0.00161	0.00142	0.00127
3.0	0.00000	0.00135	0.00244	0.00312	0.00341	0.00340	0.00321	0.00294	0.00265	0.00236	0.00210	0.00186	0.00166	0.00148	0.00132	0.00119
3.5	0.00000	0.00088	0.00163	0.00215	0.00245	0.00255	0.00250	0.00237	0.00220	0.00201	0.00183	0.00165	0.00149	0.00135	0.00122	0.00110
4.0	0.00000	0.00060	0.00113	0.00154	0.00180	0.00193	0.00196	0.00191	0.00182	0.00171	0.00158	0.00145	0.00133	0.00122	0.00111	0.00102
4.5	0.00000	0.00043	0.00082	0.00113	0.00136	0.00149	0.00155	0.00155	0.00151	0.00144	0.00136	0.00127	0.00118	0.00109	0.00101	0.00093
5.0	0.00000	0.00032	0.00061	0.00085	0.00104	0.00117	0.00124	0.00126	0.00126	0.00122	0.00117	0.00111	0.00105	0.00098	0.00091	0.00085
5.5	0.00000	0.00024	0.00046	0.00066	0.00081	0.00093	0.00100	0.00104	0.00105	0.00104	0.00101	0.00097	0.00092	0.00087	0.00082	0.00078
6.0	0.00000	0.00019	0.00036	0.00052	0.00059	0.00075	0.00082	0.00086	0.00088	0.00087	0.00084	0.00081	0.00078	0.00074	0.00070	
6.5	0.00000	0.00015	0.00029	0.00041	0.00052	0.00061	0.00067	0.00072	0.00074	0.00075	0.00075	0.00074	0.00072	0.00069	0.00067	0.00064
7.0	0.00000	0.00012	0.00023	0.00033	0.00043	0.00050	0.00056	0.00060	0.00063	0.00065	0.00065	0.00063	0.00062	0.00060	0.00058	
7.5	0.00000	0.00010	0.00019	0.00028	0.00035	0.00042	0.00047	0.00051	0.00055	0.00056	0.00056	0.00057	0.00056	0.00055	0.00054	0.00052
8.0	0.00000	0.00008	0.00016	0.00023	0.00029	0.00035	0.00040	0.00043	0.00046	0.00048	0.00049	0.00050	0.00050	0.00049	0.00048	0.00047
8.5	0.00000	0.00007	0.00013	0.00019	0.00025	0.00030	0.00034	0.00037	0.00040	0.00042	0.00043	0.00044	0.00044	0.00044	0.00044	0.00043
9.0	0.00000	0.00006	0.00011	0.00016	0.00021	0.00025	0.00029	0.00032	0.00035	0.00037	0.00038	0.00039	0.00039	0.00039	0.00039	0.00039
9.5	0.00000	0.00005	0.00009	0.00014	0.00018	0.00022	0.00025	0.00028	0.00030	0.00032	0.00033	0.00034	0.00035	0.00035	0.00035	0.00035
10.0	0.00000	0.00004	0.00008	0.00012	0.00016	0.00019	0.00022	0.00024	0.00027	0.00028	0.00030	0.00031	0.00031	0.00032	0.00032	0.00032
10.5	0.00000	0.00004	0.00007	0.00010	0.00014	0.00016	0.00019	0.00021	0.00023	0.00025	0.00026	0.00027	0.00028	0.00029	0.00029	0.00029
11.0	0.00000	0.00003	0.00006	0.00009	0.00012	0.00014	0.00017	0.00019	0.00021	0.00022	0.00024	0.00025	0.00025	0.00026	0.00026	0.00026
11.5	0.00000	0.00003	0.00005	0.00008	0.00010	0.00013	0.00015	0.00017	0.00018	0.00020	0.00021	0.00022	0.00023	0.00023	0.00024	0.00024
12.0	0.00000	0.00002	0.00005	0.00007	0.00009	0.00011	0.00013	0.00015	0.00016	0.00018	0.00019	0.00020	0.00021	0.00021	0.00022	
12.5	0.00000	0.00002	0.00004	0.00006	0.00008	0.00010	0.00012	0.00013	0.00015	0.00016	0.00017	0.00018	0.00019	0.00019	0.00020	0.00020
13.0	0.00000	0.00002	0.00004	0.00006	0.00007	0.00009	0.00010	0.00012	0.00013	0.00014	0.00015	0.00016	0.00017	0.00018	0.00018	0.00018
13.5	0.00000	0.00002	0.00003	0.00005	0.00007	0.00008	0.00009	0.00011	0.00012	0.00013	0.00014	0.00015	0.00015	0.00016	0.00017	0.00017
14.0	0.00000	0.00001	0.00003	0.00004	0.00006	0.00007	0.00008	0.00010	0.00011	0.00012	0.00013	0.00013	0.00014	0.00015	0.00016	0.00016
14.5	0.00000	0.00001	0.00003	0.00004	0.00005	0.00006	0.00008	0.00010	0.00011	0.00012	0.00013	0.00013	0.00014	0.00014	0.00014	0.00014
15.0	0.00000	0.00001	0.00002	0.00004	0.00005	0.00006	0.00007	0.00008	0.00009	0.00010	0.00010	0.00011	0.00012	0.00012	0.00013	0.00013
15.5	0.00000	0.00001	0.00002	0.00003	0.00004	0.00005	0.00006	0.00007	0.00008	0.00009	0.00010	0.00011	0.00011	0.00012	0.00012	0.00012
16.0	0.00000	0.00001	0.00002	0.00003	0.00004	0.00005	0.00006	0.00007	0.00008	0.00009	0.00009	0.00010	0.00010	0.00010	0.00011	0.00011
16.5	0.00000	0.00001	0.00002	0.00003	0.00004	0.00005	0.00006	0.00007	0.00007	0.00008	0.00009	0.00009	0.00010	0.00010	0.00010	0.00010
17.0	0.00000	0.00001	0.00002	0.00003	0.00004	0.00005	0.00006	0.00006	0.00007	0.00007	0.00008	0.00008	0.00009	0.00009	0.00009	0.00010
17.5	0.00000	0.00001	0.00002	0.00003	0.00004	0.00004	0.00005	0.00005	0.00006	0.00006	0.00007	0.00007	0.00008	0.00008	0.00009	0.00009
18.0	0.00000	0.00001	0.00001	0.00002	0.00003	0.00004	0.00004	0.00005	0.00005	0.00006	0.00006	0.00007	0.00008	0.00008	0.00008	0.00008
18.5	0.00000	0.00001	0.00001	0.00002	0.00003	0.00003	0.00004	0.00004	0.00005	0.00005	0.00006	0.00006	0.00007	0.00007	0.00007	0.00008
19.0	0.00000	0.00001	0.00001	0.00002	0.00002	0.00003	0.00003	0.00004	0.00005	0.00005	0.00005	0.00006	0.00006	0.00007	0.00007	0.00007
19.5	0.00000	0.00001	0.00002	0.00002	0.00003	0.00004	0.00004	0.00005	0.00005	0.00005	0.00006	0.00006	0.00007	0.00007	0.00007	
20.0	0.00000	0.00001	0.00001	0.00002	0.00002	0.00003	0.00003	0.00003	0.00004	0.00004	0.00005	0.00005	0.00005	0.00006	0.00006	0.00006
20.5	0.00000	0.00000	0.00001	0.00001	0.00002	0.00003	0.00003	0.00004	0.00004	0.00004	0.00005	0.00005	0.00005	0.00006	0.00006	0.00006
21.0	0.00000	0.00000	0.00001	0.00001	0.00002	0.00002	0.00003	0.00003	0.00004	0.00004	0.00005	0.00005	0.00005	0.00006	0.00006	0.00006
21.5	0.00000	0.00000	0.00001	0.00001	0.00002	0.00002	0.00003	0.00003	0.00004	0.00004	0.00004	0.00004	0.00005	0.00005	0.00005	0.00005
22.0	0.00000	0.00000	0.00001	0.00001	0.00002	0.00002	0.00003	0.00003	0.00003	0.00004	0.00004	0.00004	0.00004	0.00004	0.00005	0.00005
22.5	0.00000	0.00000	0.00001	0.00001	0.00002	0.00002	0.00003	0.00003	0.00003	0.00004	0.00004	0.00004	0.00004	0.00004	0.00005	0.00005
23.0	0.00000	0.00000	0.00001	0.00001	0.00001	0.00002	0.00002	0.00003	0.00003	0.00003	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004
23.5	0.00000	0.00000	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00003	0.00003	0.00003	0.00003	0.00004	0.00004	0.00004	0.00004
24.0	0.00000	0.00000	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00004	0.00004
24.5	0.00000	0.00000	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00003	0.00003	0.00003	0.00004
25.0	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00003	0.00003	0.00003	0.00003

Axial coordi- nate, z	Radial coordinate, r																		
	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0				
0.0	0.00131	0.00116	0.00103	0.00093	C.00C84	0.00076	0.00069	0.00063	0.00058	C.00053	0.00049	0.00046	0.00043	0.00040	0.00037				
0.5	0.00130	0.00115	0.00103	0.00092	C.00083	0.00075	0.00069	0.00063	0.00058	C.00053	0.00049	0.00046	0.00042	0.00039	0.00037				
1.0	0.00128	0.00113	0.00101	0.00091	C.00C82	0.00075	0.00068	0.00062	0.00057	0.00053	0.00049	0.00046	0.00042	0.00039	C.00037				
1.5	0.00124	0.00110	0.00099	0.00089	C.00C81	0.00073	0.00067	0.00061	0.00057	C.00052	0.00048	0.00045	0.00042	0.00039	C.00036				
2.0	0.00119	C.00107	0.00096	C.00C87	0.00079	C.0U072	0.00066	0.00060	0.00056	0.00051	0.00048	0.00044	0.00041	0.00038	0.00036				
2.5	0.00113	0.00102	C.00092	0.00084	0.00076	0.00070	0.00064	0.00059	0.00054	0.00050	0.00047	0.00043	0.00041	0.00038	0.00035				
3.0	0.00107	0.00097	0.00088	0.00080	0.00073	0.00067	0.00062	0.00057	0.00053	C.00049	0.00046	0.00042	0.00040	0.00037	C.00035				
3.5	0.00100	0.00091	0.00083	0.00076	0.00070	0.00065	0.00060	0.00055	0.00051	C.00048	0.00046	0.00041	0.00039	0.00036	0.00034				
4.0	0.00093	0.00085	C.00C79	0.00072	C.00067	0.00062	0.00057	0.00053	0.00049	C.00046	0.00043	0.00040	0.00038	0.00035	0.00033				
4.5	0.00086	0.00080	0.00074	C.00068	0.00063	0.00059	0.00055	0.00051	0.00047	0.00044	0.00042	0.00039	0.00037	0.00034	C.00032				
5.0	0.00079	0.00074	0.00069	0.00064	0.00060	0.00056	0.00052	0.00049	0.00045	C.00043	0.00040	0.00038	0.00035	0.00033	0.00032				
5.5	0.00073	0.00068	0.00064	0.00060	0.00056	0.00053	0.00049	0.00046	0.00043	0.00041	0.00038	0.00036	0.00034	0.00032	0.00031				
6.0	0.00067	0.00063	C.00059	0.00056	0.00052	0.00049	0.00047	0.00044	0.00041	C.00039	0.00037	0.00035	0.00033	0.00031	0.00030				
6.5	0.00061	0.00058	0.00055	C.00052	0.00049	0.00046	0.00044	0.00041	0.00039	0.00037	0.00035	0.00033	0.00032	0.00030	0.00029				
7.0	0.00055	0.00053	0.00050	0.00048	0.00046	0.00043	0.00041	0.00039	0.00037	0.00035	0.00034	0.00032	0.00030	0.00029	0.00028				
7.5	0.00050	0.00049	0.00047	0.00045	0.00043	0.00041	0.00039	0.00037	0.00035	C.00034	0.00032	0.00030	0.00029	0.00028	0.00026				
8.0	0.00046	0.00044	0.00043	0.00041	0.00040	0.00038	0.00036	0.00035	0.00033	C.00032	0.00030	0.00029	0.00028	0.00027	0.00025				
8.5	0.00042	0.00041	C.00039	0.00038	0.00037	0.00035	0.00034	0.00033	0.00031	0.00030	0.00029	0.00028	0.00026	0.00025	0.00024				
9.0	0.00038	0.00037	0.00036	0.00035	0.00034	0.00033	C.00032	0.00031	0.00030	C.00028	0.00027	0.00026	0.00025	0.00024	0.00023				
9.5	0.00035	0.00034	0.00033	0.00033	0.00032	0.00031	0.00030	0.00029	0.00028	0.00027	0.00026	0.00025	0.00024	0.00023	0.00022				
10.0	0.00032	0.00031	C.00031	0.00030	0.00029	0.00029	0.00028	0.00027	0.00026	0.00025	0.00024	0.00023	0.00022	C.00021					
10.5	0.00029	0.00029	0.00028	0.00028	0.00027	0.00027	0.00026	0.00025	0.00025	0.00024	0.00023	0.00022	0.00022	0.00021	C.00020				
11.0	0.00026	0.00026	0.00026	0.00026	0.00026	0.00025	0.00025	0.00024	0.00024	0.00023	0.00022	0.00022	0.00021	0.00021	0.00020	0.00019			
11.5	0.00024	0.00024	C.00024	C.00C23	0.00023	0.00023	0.00022	0.00022	0.00022	0.00021	0.00021	0.00020	0.00020	0.00019	0.00019	0.00018			
12.0	0.00022	0.00022	0.00022	0.00022	0.00022	0.00021	0.00021	0.00020	0.00020	0.00020	0.00019	0.00019	0.00018	0.00018					
12.5	0.00020	0.00020	0.00020	0.00020	C.00020	0.00020	0.00019	0.00019	0.00019	0.00018	0.00018	0.00018	0.00017	0.00017	0.00016	C.00016			
13.0	0.00019	0.00019	0.00019	0.00019	C.00019	0.00019	0.00018	0.00018	0.00018	C.00018	0.00017	0.00017	0.00017	0.00017	0.00016	0.00016			
13.5	0.00017	0.00017	0.00017	0.00018	0.00018	C.00017	0.00017	0.00017	0.00017	C.00017	0.00016	0.00016	0.00016	0.00016	0.00015	0.00015			
14.0	0.00016	0.00016	0.00016	0.00016	C.00C16	0.00016	0.00016	0.00016	0.00016	C.00016	0.00015	0.00015	0.00015	0.00015	0.00015	0.00014	C.00014		
14.5	0.00015	0.00015	0.00015	0.00015	0.00015	C.00015	0.00015	0.00015	0.00015	C.00015	0.00015	0.00014	0.00014	0.00014	0.00014				
15.0	0.00014	0.00014	0.00014	0.00014	C.00014	C.00014	0.00014	0.00014	0.00014	C.00014	0.00014	0.00013	0.00013	0.00013	0.00013				
15.5	0.00013	0.00013	C.00013	0.00013	C.00013	C.00013	0.00013	0.00013	0.00013	C.00013	0.00013	0.00013	0.00013	0.00013	0.00013				
16.0	0.00012	0.00012	0.00012	0.00012	C.00012	C.00012	0.00012	0.00012	0.00013	C.00012	0.00012	0.00012	0.00012	0.00012	0.00012				
16.5	0.00011	0.00011	0.00011	0.00011	C.00012	C.00012	0.00012	0.00012	0.00012	C.00012	0.00012	0.00012	0.00012	0.00012	0.00011	0.00011			
17.0	0.00010	0.00010	C.00C10	0.00011	C.00G11	0.00011	0.00011	0.00011	0.00011	C.00011	0.00011	0.00011	0.00011	0.00011	0.00011				
17.5	0.00009	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010			
18.0	0.00009	0.00009	0.00009	0.00009	C.00C10	0.00010	0.00010	0.00010	0.00010	C.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010			
18.5	0.00008	0.00008	0.00009	0.00009	C.00009	0.00009	0.00009	0.00009	0.00009	C.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009		
19.0	0.00008	0.00008	C.00008	0.00008	C.00008	0.00009	0.00009	0.00009	0.00009	C.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009		
19.5	0.00007	0.00007	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	C.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008		
20.0	0.00007	0.00007	C.00007	0.00007	C.00007	0.00008	0.00008	0.00008	0.00008	C.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008		
20.5	0.00006	0.00006	C.00007	C.00007	0.00007	0.00007	0.00007	0.00007	0.00007	C.00007	0.00007	0.00008	0.00008	0.00008	0.00008	0.00008	C.00008		
21.0	0.00006	0.00006	0.00006	0.00006	0.00007	0.00007	0.00007	0.00007	0.00007	C.00007	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007		
21.5	0.00006	0.00006	0.00006	C.00006	C.00C06	C.00006	0.00007	0.00007	0.00007	C.00007	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007		
22.0	0.00005	0.00005	C.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	C.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00007		
22.5	0.00005	0.00005	C.00005	0.00005	C.00006	C.00006	0.00006	0.00006	0.00006	C.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	C.00006		
23.0	0.00005	0.00005	C.00005	0.00005	C.00005	0.00005	0.00005	0.00005	0.00005	C.00005	0.00005	0.00006	0.00006	0.00006	0.00006	0.00006	C.00006		
23.5	0.00004	0.00004	C.00C05	C.00005	0.00005	0.00005	0.00005	0.00005	0.00005	C.00005	0.00005	0.00005	0.00006	0.00006	0.00006	0.00006	0.00005		
24.0	0.00004	0.00004	C.00004	0.00005	C.00005	0.00005	0.00005	0.00005	0.00005	C.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	C.00005	
24.5	0.00004	0.00004	C.00004	0.00004	C.00004	0.00005	0.00005	0.00005	0.00005	C.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	C.00005	
25.0	0.00004	0.00004	C.00004	0.00004	C.00004	0.00004	0.00004	0.00004	0.00005	C.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	C.00005	

TABLE II. - Continued. NONDIMENSIONAL RADIAL FIELD COMPONENT h_r

(b) Increments in axial and radial coordinates, 0.1

Axial coordinate, z	Radial coordinate, r															
	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
0.0	0.00000	C.07967	0.12441	0.15547	C.17710	0.19105	0.19805	0.19814	0.19058	0.17302	0.13241	0.09172	0.07183	0.05858	0.04900	0.04174
.1	0.00000	C.04747	0.08528	0.11350	C.13370	0.14693	0.15367	0.15396	0.14733	0.13277	0.11010	0.08687	0.06974	0.05744	0.04829	0.04127
.2	0.00000	C.03252	0.06115	0.08421	0.10149	0.11315	0.11936	0.12016	0.11553	0.10568	0.09190	0.07730	0.06458	0.05438	0.04634	0.03994
.3	0.00000	C.02366	0.04527	0.06348	0.07766	0.08758	0.09319	0.09455	0.09186	0.08563	0.07691	0.06729	0.05815	0.05017	0.04348	0.03794
.4	0.00000	C.01775	0.03426	0.04855	C.06000	0.06829	0.07331	0.07509	0.07387	0.07011	0.06455	0.05809	0.05157	0.04551	0.04014	0.03549
0.5	0.00000	0.01359	0.02635	0.03760	0.04683	0.05373	0.05818	0.06019	0.05997	0.05785	0.05433	0.04999	0.04536	0.04082	0.03661	0.03282
.6	0.00000	C.01056	0.02055	0.02947	0.03693	0.04267	0.04659	0.04868	0.04909	0.04804	0.04589	0.04300	0.03973	0.03637	0.03312	0.03008
.7	0.00000	C.006831	0.01622	0.02335	0.02942	0.03422	0.03765	0.03971	0.04049	0.04014	0.03890	0.03702	0.03474	0.03228	0.02980	0.02740
.8	0.00000	C.00662	0.01294	0.01870	0.02367	0.02770	0.03070	0.03266	0.03364	0.03373	0.03310	0.03192	0.03037	0.02859	0.02672	0.02484
.9	0.00000	C.00533	0.01043	0.01512	0.01923	0.02263	0.02525	0.02708	0.02814	0.02850	0.02828	0.02759	0.02656	0.02530	0.02391	0.02246
1.0	0.00000	C.00433	0.00850	0.01235	0.01576	0.01865	0.02093	0.02261	0.02369	0.02422	0.02427	0.02392	0.02226	0.02239	0.02137	0.02026
1.1	0.00000	C.00355	0.00698	0.01018	0.01304	0.01549	0.01749	0.01902	0.02007	0.02069	0.02091	0.02080	0.02042	0.01983	0.01910	0.01827
1.2	0.00000	C.00294	0.00579	0.00846	C.01C87	0.01297	0.01472	0.01610	0.01711	0.01776	0.01809	0.01814	0.01795	0.01758	0.01707	0.01646
1.3	0.00000	C.00246	0.00484	0.00709	0.00914	0.01095	0.01248	0.01372	0.01466	0.01532	0.01571	0.01587	0.01583	0.01562	0.01528	0.01484
1.4	0.00000	C.00207	0.00408	0.00599	0.00774	0.00930	0.01065	0.01176	0.01264	0.01328	0.01371	0.01394	0.01390	0.01369	0.01338	
1.5	0.00000	0.00175	0.00346	0.00509	0.00660	0.00796	0.00914	0.01014	0.01095	0.01157	0.01200	0.01228	0.01240	0.01239	0.01228	0.01208
1.6	0.00000	0.00150	0.00296	0.00436	0.00566	0.00685	0.00789	0.00879	0.00953	0.01012	0.01055	0.01085	0.01102	0.01108	0.01104	0.01091
1.7	0.00000	0.00129	0.00255	0.00376	0.00489	0.00593	0.00685	0.00766	0.00834	0.00889	0.00931	0.00962	0.00982	0.00992	0.00993	0.00987
1.8	0.00000	0.00111	0.00221	0.00326	C.0425	0.00516	0.00598	0.00671	0.00733	0.00784	0.00825	0.00856	0.00878	0.00891	0.00896	0.00895
1.9	0.00000	0.00097	0.00192	0.00284	C.0371	0.00451	0.00525	0.00590	0.00646	0.00733	0.00764	0.00786	0.00801	0.00810	0.00812	
2.0	0.00000	0.00085	0.00168	0.00249	0.00325	0.00397	0.00462	0.00521	0.00573	0.00617	0.00654	0.00684	0.00706	0.00723	0.00733	0.00738
2.1	0.00000	C.00075	0.00148	0.00219	0.00287	0.00350	0.00409	0.00462	0.00509	0.00550	0.00585	0.00614	0.00636	0.00653	0.00665	0.00672
2.2	0.00000	0.00066	0.00131	0.00194	C.00254	0.00311	0.00363	0.00412	0.00455	0.00493	0.00525	0.00553	0.00575	0.00592	0.00605	0.00613
2.3	0.00000	C.00058	0.00116	0.00172	C.00226	0.00277	0.00324	0.00368	0.00407	0.00442	0.00473	0.00499	0.00520	0.00538	0.00551	0.00560
2.4	0.00000	0.00052	C.00103	0.00153	0.00202	0.00247	0.00290	0.00330	0.00366	0.00398	0.00427	0.00451	0.00472	0.00489	0.00503	0.00513
2.5	0.00000	0.00047	C.00092	0.00137	0.00181	0.00222	0.00261	0.00297	0.00330	0.00360	0.00387	0.00410	0.00440	0.00446	0.00460	0.00470
2.6	0.00000	0.00042	C.00083	0.00123	C.00163	C.02000	0.00235	0.00268	0.00298	0.00326	0.00351	0.00373	0.00392	0.00408	0.00421	0.00432
2.7	0.00000	0.00038	C.00075	0.00111	0.00147	0.00180	0.00213	0.00243	0.00271	0.00296	0.00319	0.00340	0.00358	0.00373	0.00386	0.00397
2.8	0.00000	0.00034	C.00068	0.00101	0.00133	0.00164	0.00193	0.00220	0.00246	0.00270	0.00291	0.00311	0.00328	0.00343	0.00355	0.00366
2.9	0.00000	C.00031	C.0CC61	0.00091	0.00120	0.00149	0.00175	0.00201	0.00224	0.00246	0.00266	0.00285	0.00301	0.00315	0.00327	0.00338
3.0	0.00000	0.00028	0.00056	0.00083	0.00110	C.00135	0.00160	0.00183	0.00205	0.00225	0.00244	0.00261	0.00276	0.00290	0.00302	0.00312
3.1	0.00000	C.00026	0.00051	0.00076	C.00100	0.00124	0.00146	0.00168	0.00188	0.00207	0.00224	0.00240	0.00255	0.00268	0.00279	0.00289
3.2	0.00000	C.00023	0.00047	0.00069	0.00092	C.00113	0.00134	0.00154	0.00172	0.00190	0.00206	0.00221	0.00235	0.00247	0.00258	0.00268
3.3	0.00000	C.00021	C.00043	0.00064	0.00084	0.00104	0.00123	C.00141	0.00159	0.00175	0.00190	0.00204	0.00217	0.00229	0.00240	0.00249
3.4	0.00000	0.00020	0.00039	0.00058	C.00077	0.00096	0.00113	C.00130	0.00146	0.00162	0.00176	0.00189	0.00201	0.00212	0.00222	0.00231
3.5	0.00000	0.00018	C.00036	0.00054	0.00071	0.00088	0.00104	0.00120	0.00135	0.00149	0.00163	0.00175	0.00187	0.00197	0.00207	0.00215
3.6	0.00000	0.00017	C.00033	C.00050	0.00066	0.00081	0.00097	0.00111	0.00125	0.00138	0.00151	0.00163	0.00173	0.00183	0.00193	0.00201
3.7	0.00000	0.00015	C.00031	0.00046	0.00061	0.00075	0.00089	0.00103	0.00116	0.00128	0.00140	0.00151	0.00161	0.00171	0.00180	0.00188
3.8	0.00000	0.00014	C.00028	0.00043	C.00056	0.00070	0.00083	0.00096	0.00108	0.00119	0.00130	0.00141	0.00150	0.00159	0.00168	0.00175
3.9	0.00000	C.00013	0.00026	0.00039	C.00052	0.00065	0.00077	0.00089	0.00100	0.00111	0.00121	0.00131	0.00140	0.00149	0.00157	0.00164
4.0	0.00000	0.00012	0.00025	0.00037	0.00049	0.00060	0.00072	0.00083	0.00093	0.00104	0.00113	0.00123	0.00131	0.00139	0.00147	0.00154
4.1	0.00000	0.00011	0.00023	0.00034	0.00045	C.00056	0.00067	0.00077	0.00087	0.00097	0.00106	0.00115	0.00123	0.00130	0.00138	0.00144
4.2	0.00000	0.00011	0.00021	0.00032	0.00042	0.00052	0.00062	0.00072	0.00081	0.00090	0.00099	0.00107	0.00115	0.00122	0.00129	0.00136
4.3	0.00000	0.00010	0.00020	0.00030	0.00039	0.00049	0.00058	0.00067	0.00076	0.00085	0.00093	0.00101	0.00108	0.00115	0.00121	0.00128
4.4	0.00000	0.00009	C.00019	0.00028	0.00037	0.00046	0.00055	C.00063	0.00071	0.00079	0.00087	0.00094	0.00101	0.00108	0.00114	0.00120
4.5	0.00000	0.00009	0.00017	0.00026	0.00035	0.00043	0.00051	0.00059	0.00067	0.00075	0.00082	0.00089	0.00095	0.00102	0.00108	0.00113
4.6	0.00000	0.00008	0.00016	0.00024	0.00032	0.00040	0.00048	0.00056	0.00063	0.00070	0.00077	0.00083	0.00090	0.00096	0.00101	C.00107
4.7	0.00000	0.00008	0.00015	0.00023	0.00031	0.00038	0.00045	C.00052	0.00059	0.00066	0.00072	0.00079	0.00085	0.00090	0.00096	0.00101
4.8	0.00000	C.00007	C.00014	0.00022	0.00029	0.00036	0.00043	0.00049	0.00056	0.00062	0.00068	0.00074	0.00080	0.00085	0.00090	0.00095
4.9	0.00000	0.00007	0.00014	0.00020	0.00027	0.00034	0.00040	0.00046	0.00053	0.00059	0.00064	0.00070	0.00075	0.00081	0.00085	0.00090
5.0	0.00000	0.00006	0.00013	0.00019	0.00026	0.00032	0.00038	0.00044	0.00050	0.00055	0.00061	0.00066	0.00071	0.00076	0.00081	0.00085

Axial coordinate, z	Radial coordinates, r														
	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
0.0	0.03606	0.03152	0.02781	0.02473	0.02216	0.01997	0.01810	0.01649	0.01508	0.01385	0.01277	0.01181	0.01095	0.01019	0.00950
.1	0.03573	0.03128	0.02763	0.02460	0.02205	0.01989	0.01803	0.01643	0.01503	0.01381	0.01273	0.01178	0.01093	0.01017	0.00949
.2	0.03479	0.03058	0.02711	0.02420	0.02174	0.01964	0.01783	0.01626	0.01490	0.01370	0.01264	0.01170	0.01086	0.01011	0.00943
.3	0.03334	0.02950	0.02628	0.02355	0.02123	0.01923	0.01750	0.01599	0.01467	0.01351	0.01248	0.01156	0.01074	0.01001	0.00935
.4	0.03152	0.02812	0.02521	0.02271	0.02056	0.01869	0.01706	0.01563	0.01437	0.01325	0.01226	0.01138	0.01059	0.00987	0.00923
0.5	0.02946	0.02653	0.02396	0.02172	0.01975	0.01803	0.01652	0.01518	0.01399	0.01294	0.01199	0.01115	0.01039	0.00970	0.00908
.6	0.02731	0.02481	0.02259	0.02061	0.01885	0.01729	0.01590	0.01467	0.01356	0.01257	0.01168	0.01088	0.01016	0.00950	0.00890
.7	0.02514	0.02305	0.02115	0.01943	0.01788	0.01648	0.01523	0.01410	0.01308	0.01216	0.01133	0.01058	0.00989	0.00927	0.00870
.8	0.02303	0.02131	0.01971	0.01823	0.01687	0.01564	0.01451	0.01349	0.01256	0.01172	0.01095	0.01025	0.00961	0.00902	0.00848
.9	0.02101	0.01961	0.01828	0.01702	0.01585	0.01477	0.01378	0.01286	0.01202	0.01125	0.01054	0.00989	0.00930	0.00875	0.00825
1.0	0.01913	0.01800	0.01690	0.01584	0.01484	0.01390	0.01303	0.01221	0.01146	0.01076	0.01012	0.00952	0.00897	0.00846	0.00799
1.1	0.01738	0.01648	0.01558	0.01470	0.01385	0.01305	0.01228	0.01157	0.01089	0.01027	0.00968	0.00914	0.00863	0.00817	0.00773
1.2	0.01578	0.01507	0.01434	0.01361	0.01290	0.01221	0.01155	0.01092	0.01033	0.00977	0.00925	0.00875	0.00829	0.00786	0.00746
1.3	0.01432	0.01377	0.01318	0.01259	0.01199	0.01141	0.01084	0.01030	0.00977	0.00928	0.00881	0.00836	0.00794	0.00755	0.00718
1.4	0.01300	0.01257	0.01211	0.01162	0.01113	0.01064	0.01016	0.00969	0.00923	0.00879	0.00837	0.00798	0.00760	0.00724	0.00690
1.5	0.01180	0.01148	0.01112	0.01073	0.01032	0.00991	0.00950	0.00910	0.00870	0.00832	0.00795	0.00759	0.00725	0.00693	0.00662
1.6	0.01072	0.01048	0.01020	0.00990	0.00957	0.00923	0.00888	0.00854	0.00820	0.00786	0.00753	0.00722	0.00691	0.00662	0.00634
1.7	0.00975	0.00958	0.00937	0.00913	0.00886	0.00858	0.00830	0.00800	0.00771	0.00742	0.00713	0.00685	0.00658	0.00632	0.00607
1.8	0.00888	0.00876	0.00861	0.00842	0.00821	0.00798	0.00774	0.00750	0.00725	0.00700	0.00675	0.00650	0.00626	0.00603	0.00580
1.9	0.00809	0.00802	0.00791	0.00777	0.00761	0.00742	0.00723	0.00702	0.00681	0.00659	0.00638	0.00616	0.00595	0.00574	0.00554
2.0	0.00739	0.00735	0.00728	0.00717	0.00705	0.00690	0.00674	0.00657	0.00639	0.00621	0.00602	0.00583	0.00565	0.00546	0.00528
2.1	0.00675	0.00674	0.00670	0.00663	0.00653	0.00642	0.00629	0.00615	0.00600	0.00584	0.00568	0.00552	0.00536	0.00519	0.00503
2.2	0.00618	0.00619	0.00617	0.00613	0.00606	0.00597	0.00587	0.00576	0.00563	0.00550	0.00536	0.00522	0.00508	0.00494	0.00479
2.3	0.00566	0.00569	0.00569	0.00567	0.00562	0.00556	0.00548	0.00539	0.00529	0.00518	0.00506	0.00494	0.00482	0.00469	0.00456
2.4	0.00520	0.00524	0.00526	0.00525	0.00522	0.00518	0.00512	0.00505	0.00496	0.00487	0.00477	0.00467	0.00456	0.00445	0.00434
2.5	0.00478	0.00483	0.00486	0.00485	0.00482	0.00478	0.00473	0.00466	0.00458	0.00450	0.00442	0.00432	0.00423	0.00413	
2.6	0.00440	0.00446	0.00450	0.00451	0.00451	0.00450	0.00447	0.00443	0.00438	0.00432	0.00425	0.00417	0.00410	0.00401	0.00393
2.7	0.00406	0.00412	0.00416	0.00419	0.00420	0.00420	0.00418	0.00415	0.00411	0.00406	0.00401	0.00395	0.00388	0.00381	0.00374
2.8	0.00375	0.00381	0.00386	0.00390	0.00391	0.00392	0.00391	0.00389	0.00386	0.00383	0.00378	0.00373	0.00368	0.00362	0.00355
2.9	0.00346	0.00353	0.00359	0.00363	0.00365	0.00366	0.00365	0.00363	0.00360	0.00357	0.00353	0.00348	0.00343	0.00338	
3.0	0.00321	0.00328	0.00334	0.00338	0.00341	0.00342	0.00343	0.00343	0.00342	0.00340	0.00337	0.00334	0.00330	0.00326	0.00321
3.1	0.00298	0.00305	0.00310	0.00315	0.00318	0.00321	0.00322	0.00322	0.00320	0.00318	0.00316	0.00313	0.00309	0.00305	
3.2	0.00276	0.00283	0.00289	0.00294	0.00294	0.00300	0.00302	0.00303	0.00302	0.00301	0.00299	0.00297	0.00294	0.00290	
3.3	0.00257	0.00264	0.00270	0.00275	0.00279	0.00282	0.00284	0.00285	0.00285	0.00284	0.00283	0.00281	0.00279	0.00276	
3.4	0.00239	0.00246	0.00252	0.00257	0.00261	0.00264	0.00267	0.00268	0.00269	0.00269	0.00268	0.00267	0.00265	0.00263	
3.5	0.00223	0.00230	0.00236	0.00241	0.00245	0.00248	0.00251	0.00253	0.00254	0.00255	0.00255	0.00254	0.00253	0.00252	0.00250
3.6	0.00208	0.00215	0.00221	0.00226	0.00230	0.00233	0.00236	0.00238	0.00240	0.00241	0.00241	0.00241	0.00240	0.00239	0.00238
3.7	0.00195	0.00201	0.00207	0.00212	0.00216	0.00220	0.00222	0.00225	0.00226	0.00228	0.00228	0.00228	0.00228	0.00227	
3.8	0.00182	0.00189	0.00194	0.00199	0.00203	0.00207	0.00210	0.00212	0.00214	0.00215	0.00216	0.00217	0.00217	0.00217	0.00216
3.9	0.00171	0.00177	0.00182	0.00187	0.00191	0.00195	0.00198	0.00200	0.00202	0.00204	0.00205	0.00206	0.00206	0.00206	0.00206
4.0	0.00160	0.00166	0.00171	0.00176	0.00180	0.00184	0.00187	0.00190	0.00192	0.00193	0.00195	0.00196	0.00196	0.00196	0.00196
4.1	0.00151	0.00156	0.00161	0.00166	0.00170	0.00174	0.00177	0.00179	0.00182	0.00183	0.00185	0.00186	0.00186	0.00187	0.00187
4.2	0.00142	0.00147	0.00152	0.00156	0.00160	0.00164	0.00167	0.00170	0.00172	0.00174	0.00175	0.00177	0.00178	0.00178	0.00178
4.3	0.00133	0.00138	0.00143	0.00148	0.00152	0.00155	0.00158	0.00161	0.00163	0.00165	0.00167	0.00168	0.00169	0.00170	0.00170
4.4	0.00125	0.00131	0.00135	0.00139	0.00143	0.00147	0.00150	0.00152	0.00155	0.00157	0.00159	0.00160	0.00161	0.00162	0.00162
4.5	0.00118	0.00123	0.00128	0.00132	0.00136	0.00139	0.00142	0.00145	0.00147	0.00149	0.00151	0.00152	0.00153	0.00154	0.00155
4.6	0.00112	0.00116	0.00121	0.00125	0.00128	0.00132	0.00135	0.00137	0.00140	0.00142	0.00144	0.00145	0.00146	0.00147	0.00148
4.7	0.00106	0.00110	0.00114	0.00118	0.00122	0.00125	0.00128	0.00130	0.00133	0.00135	0.00137	0.00138	0.00140	0.00141	0.00142
4.8	0.00100	0.00104	0.00108	0.00112	0.00115	0.00119	0.00121	0.00124	0.00126	0.00129	0.00130	0.00132	0.00133	0.00134	0.00135
4.9	0.00095	0.00099	0.00103	0.00106	0.00110	0.00113	0.00115	0.00118	0.00120	0.00122	0.00124	0.00126	0.00127	0.00128	0.00129
5.0	0.00090	0.00094	0.00097	0.00101	0.00104	0.00107	0.00110	0.00112	0.00115	0.00117	0.00119	0.00120	0.00122	0.00123	0.00124

TABLE II. - Continued. NONDIMENSIONAL RADIAL FIELD COMPONENT h_r

(b) Concluded. Increments in axial and radial coordinates, 0.1

Axial coordinate, z	Radial coordinate, r														
	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5
0.0	0.00888	0.00833	0.00782	0.00735	0.00693	0.00655	0.00619	0.00586	0.00556	0.00528	0.00503	0.00479	0.00456	0.00436	0.00416
.1	0.00887	0.00831	0.00791	0.00734	0.00692	0.00654	0.00618	0.00586	0.00556	0.00528	0.00502	0.00478	0.00456	0.00435	0.00416
.2	0.00882	0.00827	0.00777	0.00731	0.00690	0.00651	0.00616	0.00584	0.00554	0.00526	0.00501	0.00477	0.00455	0.00434	0.00415
.3	0.00875	0.00821	0.00771	0.00726	0.00685	0.00647	0.00613	0.00581	0.00551	0.00524	0.00498	0.00475	0.00453	0.00432	0.00413
.4	0.00865	0.00812	0.00763	0.00719	0.00679	0.00642	0.00608	0.00576	0.00547	0.00520	0.00495	0.00472	0.00450	0.00430	0.00411
0.5	0.00852	0.00800	0.00753	0.00710	0.00671	0.00635	0.00601	0.00570	0.00542	0.00515	0.00491	0.00468	0.00447	0.00427	0.00408
.6	0.00836	0.00787	0.00741	0.00700	0.00662	0.00626	0.00594	0.00564	0.00536	0.00510	0.00486	0.00464	0.00443	0.00423	0.00405
.7	0.00819	0.00771	0.00728	0.00688	0.00651	0.00617	0.00585	0.00556	0.00529	0.00504	0.00480	0.00458	0.00438	0.00419	0.00401
.8	0.00799	0.00754	0.00712	0.00674	0.00639	0.00606	0.00575	0.00547	0.00521	0.00497	0.00474	0.00452	0.00433	0.00414	0.00396
.9	0.00778	0.00735	0.00696	0.00659	0.00625	0.00594	0.00565	0.00538	0.00512	0.00489	0.00467	0.00446	0.00427	0.00408	0.00391
1.0	0.00756	0.00715	0.00678	0.00643	0.00611	0.00581	0.00553	0.00527	0.00503	0.00480	0.00459	0.00439	0.00420	0.00402	0.00386
1.1	0.00732	0.00694	0.00659	0.00627	0.00596	0.00568	0.00541	0.00516	0.00493	0.00471	0.00450	0.00431	0.00413	0.00396	0.00380
1.2	0.00708	0.00673	0.00640	0.00609	0.00580	0.00553	0.00528	0.00504	0.00482	0.00461	0.00441	0.00423	0.00406	0.00389	0.00374
1.3	0.00683	0.00650	0.00620	0.00591	0.00564	0.00538	0.00514	0.00492	0.00471	0.00451	0.00432	0.00415	0.00398	0.00382	0.00367
1.4	0.00658	0.00628	0.00599	0.00572	0.00547	0.00523	0.00501	0.00479	0.00459	0.00440	0.00423	0.00406	0.00390	0.00375	0.00360
1.5	0.00633	0.00605	0.00578	0.00554	0.00530	0.00508	0.00486	0.00466	0.00447	0.00429	0.00413	0.00396	0.00381	0.00367	0.00353
1.6	0.00607	0.00582	0.00558	0.00535	0.00513	0.00492	0.00472	0.00453	0.00435	0.00418	0.00402	0.00387	0.00373	0.00359	0.00346
1.7	0.00582	0.00559	0.00537	0.00516	0.00495	0.00476	0.00457	0.00440	0.00423	0.00407	0.00392	0.00377	0.00364	0.00351	0.00338
1.8	0.00558	0.00537	0.00516	0.00497	0.00478	0.00460	0.00443	0.00426	0.00411	0.00396	0.00381	0.00368	0.00355	0.00342	0.00330
1.9	0.00534	0.00514	0.00496	0.00478	0.00461	0.00444	0.00428	0.00413	0.00398	0.00384	0.00371	0.00358	0.00345	0.00334	0.00322
2.0	0.00510	0.00493	0.00476	0.00459	0.00444	0.00428	0.00414	0.00399	0.00386	0.00373	0.00360	0.00348	0.00336	0.00325	0.00314
2.1	0.00487	0.00472	0.00456	0.00441	0.00427	0.00413	0.00399	0.00386	0.00373	0.00361	0.00349	0.00338	0.00327	0.00317	0.00306
2.2	0.00465	0.00451	0.00437	0.00424	0.00410	0.00397	0.00385	0.00373	0.00361	0.00350	0.00339	0.00328	0.00318	0.00308	0.00298
2.3	0.00444	0.00431	0.00419	0.00406	0.00394	0.00382	0.00371	0.00360	0.00349	0.00338	0.00328	0.00318	0.00309	0.00299	0.00290
2.4	0.00423	0.00412	0.00401	0.00390	0.00379	0.00368	0.00357	0.00347	0.00337	0.00327	0.00318	0.00308	0.00299	0.00291	0.00282
2.5	0.00403	0.00393	0.00383	0.00373	0.00363	0.00354	0.00344	0.00334	0.00325	0.00316	0.00307	0.00299	0.00290	0.00282	0.00274
2.6	0.00384	0.00375	0.00366	0.00357	0.00349	0.00340	0.00331	0.00322	0.00314	0.00305	0.00297	0.00289	0.00281	0.00274	0.00267
2.7	0.00366	0.00358	0.00350	0.00342	0.00334	0.00326	0.00318	0.00310	0.00303	0.00295	0.00287	0.00280	0.00273	0.00266	0.00259
2.8	0.00349	0.00342	0.00335	0.00328	0.00320	0.00313	0.00306	0.00299	0.00292	0.00285	0.00278	0.00271	0.00264	0.00257	0.00251
2.9	0.00332	0.00326	0.00320	0.00313	0.00307	0.00300	0.00294	0.00287	0.00281	0.00274	0.00268	0.00262	0.00256	0.00249	0.00243
3.0	0.00316	0.00311	0.00305	0.00300	0.00294	0.00288	0.00282	0.00276	0.00271	0.00265	0.00259	0.00253	0.00247	0.00242	0.00236
3.1	0.00301	0.00297	0.00292	0.00287	0.00282	0.00277	0.00271	0.00266	0.00261	0.00255	0.00250	0.00244	0.00239	0.00234	0.00229
3.2	0.00287	0.00283	0.00279	0.00274	0.00270	0.00265	0.00261	0.00256	0.00251	0.00246	0.00241	0.00236	0.00231	0.00226	0.00222
3.3	0.00273	0.00270	0.00266	0.00263	0.00259	0.00254	0.00250	0.00246	0.00241	0.00237	0.00232	0.00228	0.00223	0.00219	0.00215
3.4	0.00260	0.00257	0.00254	0.00251	0.00248	0.00244	0.00240	0.00236	0.00232	0.00228	0.00224	0.00220	0.00216	0.00212	0.00208
3.5	0.00248	0.00246	0.00243	0.00240	0.00237	0.00234	0.00231	0.00227	0.00224	0.00220	0.00216	0.00212	0.00209	0.00205	0.00201
3.6	0.00236	0.00234	0.00232	0.00230	0.00227	0.00224	0.00221	0.00218	0.00215	0.00212	0.00208	0.00205	0.00202	0.00198	0.00195
3.7	0.00225	0.00224	0.00222	0.00220	0.00218	0.00215	0.00213	0.00210	0.00207	0.00204	0.00201	0.00198	0.00195	0.00192	0.00188
3.8	0.00215	0.00214	0.00212	0.00210	0.00208	0.00206	0.00204	0.00202	0.00199	0.00196	0.00194	0.00191	0.00188	0.00185	0.00182
3.9	0.00205	0.00204	0.00203	0.00201	0.00200	0.00198	0.00196	0.00194	0.00192	0.00189	0.00187	0.00184	0.00182	0.00179	0.00176
4.0	0.00196	0.00195	0.00194	0.00193	0.00191	0.00190	0.00188	0.00186	0.00184	0.00182	0.00180	0.00178	0.00175	0.00173	0.00171
4.1	0.00187	0.00186	0.00185	0.00183	0.00182	0.00181	0.00179	0.00177	0.00175	0.00173	0.00171	0.00169	0.00167	0.00165	0.00163
4.2	0.00178	0.00178	0.00177	0.00176	0.00175	0.00174	0.00172	0.00171	0.00169	0.00167	0.00165	0.00164	0.00162	0.00159	0.00157
4.3	0.00170	0.00170	0.00170	0.00169	0.00169	0.00168	0.00167	0.00165	0.00164	0.00163	0.00161	0.00160	0.00158	0.00156	0.00154
4.4	0.00163	0.00163	0.00163	0.00162	0.00162	0.00161	0.00160	0.00159	0.00158	0.00157	0.00155	0.00154	0.00152	0.00151	0.00149
4.5	0.00155	0.00156	0.00156	0.00155	0.00155	0.00154	0.00153	0.00152	0.00151	0.00150	0.00149	0.00147	0.00146	0.00144	0.00142
4.6	0.00149	0.00149	0.00149	0.00149	0.00149	0.00148	0.00148	0.00147	0.00146	0.00145	0.00144	0.00143	0.00142	0.00141	0.00140
4.7	0.00142	0.00143	0.00143	0.00143	0.00143	0.00143	0.00142	0.00142	0.00141	0.00140	0.00139	0.00138	0.00137	0.00136	0.00135
4.8	0.00136	0.00137	0.00137	0.00137	0.00137	0.00137	0.00137	0.00136	0.00136	0.00135	0.00134	0.00134	0.00133	0.00132	0.00131
4.9	0.00130	0.00131	0.00131	0.00132	0.00132	0.00132	0.00132	0.00131	0.00131	0.00131	0.00130	0.00129	0.00128	0.00127	0.00126
5.0	0.00125	0.00125	0.00126	0.00126	0.00126	0.00126	0.00126	0.00126	0.00126	0.00126	0.00125	0.00124	0.00124	0.00123	0.00122

Axial coordi- nate, z	Radial coordinate, r					Axial coordi- nate, z	Radial coordinate, r				
	4.6	4.7	4.8	4.9	5.0		4.6	4.7	4.8	4.9	5.0
0.0	0.00398	0.00381	0.00365	0.00350	0.00336	2.5	0.00267	0.00259	0.00252	0.00245	0.00238
.1	0.00398	0.00381	0.00365	0.00350	0.00336	2.6	0.00259	0.00252	0.00246	0.00239	0.00233
.2	0.00397	0.00380	0.00364	0.00349	0.00335	2.7	0.00252	0.00245	0.00239	0.00233	0.00227
.3	0.00395	0.00379	0.00363	0.00348	0.00334	2.8	0.00245	0.00239	0.00233	0.00227	0.00221
.4	0.00393	0.00377	0.00361	0.00347	0.00333	2.9	0.00238	0.00232	0.00226	0.00221	0.00215
0.5	0.00391	0.00374	0.00359	0.00345	0.00331	3.0	0.00231	0.00225	0.00220	0.00215	0.00210
.6	0.00388	0.00372	0.00357	0.00342	0.00329	3.1	0.00224	0.00219	0.00214	0.00209	0.00204
.7	0.00384	0.00368	0.00353	0.00339	0.00326	3.2	0.00217	0.00212	0.00208	0.00203	0.00199
.8	0.00380	0.00365	0.00350	0.00336	0.00323	3.3	0.00210	0.00206	0.00202	0.00197	0.00193
.9	0.00375	0.00360	0.00346	0.00333	0.00320	3.4	0.00204	0.00200	0.00196	0.00192	0.00188
1.0	0.00370	0.00356	0.00342	0.00329	0.00316	3.5	0.00197	0.00194	0.00190	0.00186	0.00183
1.1	0.00365	0.00351	0.00337	0.00325	0.00313	3.6	0.00191	0.00188	0.00184	0.00181	0.00177
1.2	0.00359	0.00345	0.00332	0.00320	0.00308	3.7	0.00185	0.00182	0.00179	0.00176	0.00172
1.3	0.00353	0.00340	0.00327	0.00315	0.00304	3.8	0.00179	0.00176	0.00173	0.00170	0.00167
1.4	0.00347	0.00334	0.00322	0.00310	0.00299	3.9	0.00174	0.00171	0.00168	0.00165	0.00163
1.5	0.00340	0.00328	0.00316	0.00305	0.00294	4.0	0.00168	0.00166	0.00163	0.00160	0.00158
1.6	0.00333	0.00321	0.00310	0.00299	0.00289	4.1	0.00163	0.00160	0.00158	0.00156	0.00153
1.7	0.00326	0.00315	0.00304	0.00294	0.00284	4.2	0.00157	0.00155	0.00153	0.00151	0.00149
1.8	0.00319	0.00308	0.00298	0.00288	0.00279	4.3	0.00152	0.00150	0.00148	0.00146	0.00144
1.9	0.00312	0.00301	0.00291	0.00282	0.00273	4.4	0.00147	0.00146	0.00144	0.00142	0.00140
2.0	0.00304	0.00294	0.00285	0.00276	0.00267	4.5	0.00143	0.00141	0.00139	0.00138	0.00136
2.1	0.00297	0.00287	0.00279	0.00270	0.00262	4.6	0.00138	0.00137	0.00135	0.00134	0.00132
2.2	0.00289	0.00280	0.00272	0.00264	0.00256	4.7	0.00134	0.00132	0.00131	0.00130	0.00128
2.3	0.00282	0.00273	0.00265	0.00258	0.00250	4.8	0.00129	0.00128	0.00127	0.00126	0.00124
2.4	0.00274	0.00266	0.00259	0.00251	0.00244	4.9	0.00125	0.00124	0.00123	0.00122	0.00121
						5.0	0.00121	0.00120	0.00119	0.00118	0.00117

TABLE II. - Continued. NONDIMENSIONAL RADIAL FIELD COMPONENT h_r

(c) Increments in axial and radial coordinates, 0.05

Axial coordinate, z	Radial coordinate, r															
	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
0.00	0.00000	0.04852	0.07967	0.10422	0.12441	0.14129	0.15547	0.16732	0.17710	0.18497	0.19105	0.19540	0.19805	0.19898	0.19814	0.19540
.05	0.00000	0.03235	0.05997	0.08300	0.10237	0.11875	0.13259	0.14420	0.15381	0.16157	0.16756	0.17186	0.17449	0.17543	0.17462	0.17198
.10	0.00000	0.02467	0.04747	0.06768	0.08528	0.10048	0.11350	0.12452	0.13370	0.14115	0.14693	0.15110	0.15367	0.15464	0.15396	0.15156
.15	0.00000	0.01991	0.03887	0.05627	0.07186	0.08561	0.09756	0.10779	0.11638	0.12340	0.12888	0.13287	0.13537	0.13639	0.13589	0.13385
.20	0.00000	0.01655	0.03252	0.04747	0.06115	0.07340	0.08421	0.09356	0.10149	0.10801	0.11315	0.11693	0.11936	0.12044	0.12016	0.11952
0.25	0.00000	0.01399	0.02760	0.04049	0.05244	0.06330	0.07298	0.08144	0.08868	0.09468	0.09946	0.10303	0.10538	0.10652	0.10647	0.10524
.30	0.00000	0.01197	0.02366	0.03482	0.04527	0.05486	0.06348	0.07110	0.07766	0.08316	0.08758	0.09092	0.09319	0.09439	0.09455	0.09369
.35	0.00000	0.01032	0.02043	0.03014	0.03929	0.04775	0.05542	0.06225	0.06818	0.07319	0.07725	0.08038	0.08256	0.08382	0.08416	0.08363
.40	0.00000	0.00896	0.01775	0.02623	0.03426	0.04173	0.04855	0.05466	0.06000	0.06455	0.06829	0.07121	0.07331	0.07459	0.07509	0.07483
.45	0.00000	0.00781	0.01550	0.02293	0.02999	0.03660	0.04266	0.04812	0.05294	0.05707	0.06050	0.06322	0.06523	0.06653	0.06715	C.06712
0.50	0.00000	0.00685	0.01359	0.02012	0.02635	0.03220	0.03760	0.04249	0.04683	0.05058	0.05373	0.05626	0.05818	0.05948	0.06019	0.06034
.55	0.00000	0.00602	0.01196	0.01772	0.02324	0.02843	0.03324	0.03762	0.04153	0.04494	0.04783	0.05018	0.05200	0.05329	0.05407	0.05436
.60	0.00000	0.00532	0.01056	0.01566	0.02055	0.02517	0.02947	0.03340	0.03693	0.04003	0.04267	0.04486	0.04659	0.04786	0.04868	0.04908
.65	0.00000	0.00471	0.00935	0.01388	0.01823	0.02235	0.02620	0.02973	0.03292	0.03574	0.03817	0.04020	0.04184	0.04307	0.04392	0.04441
.70	0.00000	0.00418	0.00831	0.01234	0.01622	0.01990	0.02335	0.02653	0.02942	0.03199	0.03422	0.03611	0.03765	0.03885	0.03971	C.04025
0.75	0.00000	0.00373	0.00741	0.01100	0.01447	0.01777	0.02087	0.02374	0.02636	0.02870	0.03075	0.03251	0.03396	0.03512	0.03598	0.03656
.80	0.00000	0.00333	0.00662	0.00983	0.01294	0.01590	0.01870	0.02129	0.02367	0.02581	0.02770	0.02933	0.03070	0.03181	0.03266	0.03327
.85	0.00000	0.00298	0.00593	0.00881	0.01610	0.01427	0.01679	0.01915	0.02131	0.02327	0.02501	0.02652	0.02781	0.02971	0.03033	
.90	0.00000	0.00268	0.00533	0.00792	0.01043	0.01284	0.01512	0.01726	0.01923	0.02102	0.02263	0.02404	0.02525	0.02626	0.02708	
.95	0.00000	0.00241	0.00480	0.00713	0.00940	0.01158	0.01365	0.01559	0.01739	0.01904	0.02052	0.02183	0.02297	0.02393	0.02472	0.02534
1.00	0.00000	0.00217	0.00433	0.00644	0.00850	0.01047	0.01235	0.01412	0.01576	0.01728	0.01865	0.01987	0.02093	0.02185	0.02261	0.02322

Axial coordinate, z	Radial coordinate, r															
	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.55
0.00	0.19058	0.18332	0.17302	0.15828	0.13241	0.10664	0.09172	0.08062	0.07183	0.06462	0.05858	0.05343	0.04900	0.04513	0.04174	0.03874
.05	0.16731	0.16035	0.15065	0.13750	0.12065	0.10379	0.09035	0.07980	0.07128	0.06423	0.05829	0.05321	0.04882	0.04499	0.04162	0.03864
.10	0.14733	0.14112	0.13277	0.12225	0.11010	0.09784	0.08687	0.07575	0.06974	0.06310	0.05744	0.05255	0.04829	0.04456	0.04127	0.03835
.15	0.13022	0.12496	0.11809	0.10979	0.10056	0.09115	0.08230	0.07436	0.06742	0.06137	0.05610	0.05150	0.04745	0.04388	0.04070	0.03787
.20	0.11553	0.11122	0.10568	0.09912	0.09190	0.08448	0.07730	0.07062	0.06458	0.05918	0.05438	0.05012	0.04634	0.04296	0.03994	0.03723
0.25	0.10286	0.09940	0.09497	0.08977	0.08405	0.07811	0.07223	0.06663	0.06143	0.05668	0.05237	0.04849	0.04500	0.04185	0.03901	0.03644
.30	0.09186	0.08914	0.08563	0.08149	0.07691	0.07211	0.06729	0.06260	0.05815	0.05400	0.05017	0.04667	0.04348	0.04058	0.03794	0.03553
.35	0.08227	0.08016	0.07740	0.07411	0.07043	0.06654	0.06256	0.05863	0.05483	0.05123	0.04786	0.04474	0.04185	0.03919	0.03676	0.03452
.40	0.07387	0.07227	0.07011	0.06750	0.06455	0.06137	0.05809	0.05480	0.05157	0.04846	0.04551	0.04273	0.04014	0.03773	0.03549	0.03343
.45	0.06648	0.06530	0.06363	0.06157	0.05920	0.05661	0.05390	0.05114	0.04840	0.04572	0.04315	0.04069	0.03838	0.03620	0.03417	0.03228
0.50	0.05997	0.05911	0.05785	0.05623	0.05433	0.05223	0.04999	0.04769	0.04536	0.04306	0.04082	0.03867	0.03661	0.03466	0.03282	0.03109
.55	0.05420	0.05362	0.05268	0.05142	0.04991	0.04821	0.04636	0.04444	0.04247	0.04050	0.03856	0.03667	0.03485	0.03311	0.03145	0.02988
.60	0.04909	0.04872	0.04804	0.04708	0.04589	0.04451	0.04300	0.04139	0.03973	0.03805	0.03637	0.03473	0.03312	0.03157	0.03008	0.02866
.65	0.04454	0.04435	0.04388	0.04316	0.04223	0.04113	0.03989	0.03856	0.03716	0.03572	0.03428	0.03284	0.03143	0.03006	0.02873	0.02745
.70	0.04049	0.04044	0.04014	0.03962	0.03890	0.03802	0.03702	0.03591	0.03474	0.03352	0.03228	0.03104	0.02980	0.02858	0.02740	0.02625
0.75	0.03687	0.03693	0.03677	0.03641	0.03587	0.03518	0.03437	0.03346	0.03248	0.03145	0.03039	0.02931	0.02823	0.02715	0.02610	0.02507
.80	0.03364	0.03378	0.03373	0.03350	0.03310	0.03257	0.03192	0.03118	0.03037	0.02950	0.02859	0.02766	0.02672	0.02578	0.02484	0.02392
.85	0.03074	0.03095	0.03099	0.03086	0.03058	0.03018	0.02967	0.02897	0.02840	0.02767	0.02689	0.02609	0.02528	0.02445	0.02363	0.02281
.90	0.02814	0.02840	0.02850	0.02846	0.02828	0.02799	0.02759	0.02711	0.02656	0.02595	0.02530	0.02461	0.02391	0.02318	0.02246	0.02173
.95	0.02580	0.02610	0.02626	0.02628	0.02618	0.02598	0.02568	0.02530	0.02485	0.02435	0.02380	0.02321	0.02260	0.02197	0.02134	0.02070
1.00	0.02369	0.02402	0.02422	0.02430	0.02427	0.02414	0.02392	0.02362	0.02326	0.02285	0.02239	0.02189	0.02137	0.02082	0.02026	0.01970

Axial coordi- nate, <i>z</i>	Radial coordinate, <i>r</i>								
	1.60	1.65	1.70	1.75	1.80	1.85	1.90	1.95	2.00
0.00	0.03606	0.03367	0.03152	0.02957	0.02781	0.02620	0.02473	0.02339	0.02216
.05	0.03598	0.03360	0.03145	0.02952	0.02776	0.02616	0.02470	0.02336	0.02213
.10	0.03573	0.03339	0.03128	0.02936	0.02763	0.02604	0.02460	0.02327	0.02205
.15	0.03533	0.03305	0.03098	0.02911	0.02741	0.02585	0.02443	0.02312	0.02192
.20	0.03479	0.03258	0.03058	0.02877	0.02711	0.02559	0.02420	0.02292	0.02174
0.25	0.03412	0.03201	0.03009	0.02833	0.02673	0.02526	0.02390	0.02266	0.02150
.30	0.03334	0.03133	0.02950	0.02782	0.02628	0.02486	0.02355	0.02235	0.02123
.35	0.03246	0.03058	0.02884	0.02725	0.02577	0.02441	0.02316	0.02199	0.02091
.40	0.03152	0.02975	0.02812	0.02661	0.02521	0.02392	0.02271	0.02160	0.02056
.45	0.03051	0.02887	0.02734	0.02592	0.02460	0.02337	0.02223	0.02116	0.02017
0.50	0.02946	0.02795	0.02653	0.02520	0.02396	0.02280	0.02172	0.02070	0.01975
.55	0.02839	0.02699	0.02568	0.02444	0.02328	0.02219	0.02117	0.02021	0.01931
.60	0.02731	0.02603	0.02481	0.02367	0.02259	0.02157	0.02061	0.01970	0.01885
.65	0.02622	0.02505	0.02394	0.02288	0.02187	0.02092	0.02003	0.01918	0.01837
.70	0.02514	0.02407	0.02305	0.02208	0.02115	0.02027	0.01943	0.01864	0.01788
0.75	0.02407	0.02311	0.02218	0.02128	0.02043	0.01961	0.01883	0.01809	0.01738
.80	0.02303	0.02215	0.02131	0.02049	0.01971	0.01895	0.01823	0.01754	0.01687
.85	0.02201	0.02122	0.02045	0.01971	0.01899	0.01829	0.01762	0.01698	0.01636
.90	0.02101	0.02031	0.01961	0.01894	0.01828	0.01764	0.01702	0.01643	0.01585
.95	0.02005	0.01942	0.01879	0.01818	0.01758	0.01700	0.01643	0.01588	0.01535
1.00	0.01913	0.01856	0.01800	0.01744	0.01690	0.01636	0.01584	0.01533	0.01484

TABLE II. - Continued. NONDIMENSIONAL RADIAL FIELD COMPONENT h_r

(d) Increments in axial and radial coordinates, 0.02

Axial coordinate, z	Radial coordinate, r													
	0.00	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.24	0.26
0.00	0.00000	0.02399	0.04105	0.05549	0.06822	0.07967	0.09012	0.09970	0.10856	0.11677	0.12441	0.13152	0.13814	0.14433
.02	0.00000	0.01751	0.03315	0.04697	0.05937	0.07062	0.08091	0.09040	0.09917	0.10732	0.11491	0.12197	0.12857	0.13472
.04	0.00000	0.01442	0.02810	0.04077	0.05244	0.06318	0.07312	0.08234	0.09090	0.09889	0.10634	0.11329	0.11979	0.12587
.06	0.00000	0.01248	0.02459	0.03609	0.04691	0.05703	0.06649	0.07533	0.08361	0.09135	0.09860	0.10539	0.11176	0.11771
.08	0.00000	0.01108	0.02194	0.03241	0.04240	0.05187	0.06080	0.06922	0.07715	0.08460	0.09161	0.09820	0.10439	0.11019
0.10	0.00000	0.00999	0.01984	0.02942	0.03864	0.04747	0.05588	0.06385	0.07140	0.07854	0.08528	0.09164	0.09762	0.10325
.12	0.00000	0.00910	0.01810	0.02691	0.03545	0.04368	0.05157	0.05910	0.06627	0.07308	0.07954	0.08564	0.09141	0.09685
.14	0.00000	0.00836	0.01663	0.02477	0.03270	0.04038	0.04778	0.05488	0.06167	0.06814	0.07430	0.08015	0.08569	0.09093
.16	0.00000	0.00771	0.01537	0.02291	0.03028	0.03746	0.04440	0.05109	0.05751	0.06366	0.06953	0.07512	0.08042	0.08546
.18	0.00000	0.00715	0.01425	0.02126	0.02814	0.03485	0.04137	0.04767	0.05375	0.05958	0.06516	0.07049	0.07556	0.08038
0.20	0.00000	0.00665	0.01327	0.01980	0.02623	0.03252	0.03864	0.04458	0.05032	0.05584	0.06115	0.06622	0.07107	0.07568
.22	0.00000	0.00621	0.01238	0.01849	0.02451	0.03041	0.03617	0.04176	0.04718	0.05242	0.05745	0.06228	0.06691	0.07131
.24	0.00000	0.00581	0.01158	0.01731	0.02295	0.02849	0.03391	0.03919	0.04431	0.04927	0.05405	0.05864	0.06304	0.06725
.26	0.00000	0.00544	0.01086	0.01623	0.02153	0.02674	0.03184	0.03682	0.04167	0.04636	0.05090	0.05526	0.05946	0.06347
.28	0.00000	0.00511	0.01019	0.01524	0.02023	0.02513	0.02995	0.03465	0.03923	0.04368	0.04798	0.05213	0.05612	0.05995
0.30	0.00000	0.00480	0.00959	0.01433	0.01903	0.02636	0.02820	0.03264	0.03697	0.04119	0.04527	0.04921	0.05301	0.05666
.32	0.00000	0.00452	0.00903	0.01350	0.01793	0.02229	0.02658	0.03078	0.03488	0.03888	0.04275	0.04650	0.05011	0.05359
.34	0.00000	0.00426	0.00851	0.01273	0.01691	0.02103	0.02508	0.02906	0.03294	0.03673	0.04040	0.04396	0.04740	0.05072
.36	0.00000	0.00402	0.00803	0.01201	0.01596	0.01986	0.02369	0.02745	0.03113	0.03472	0.03821	0.04160	0.04487	0.04803
.38	0.00000	0.00380	0.00759	0.01135	0.01508	0.01877	0.02239	0.02596	0.02945	0.03285	0.03617	0.03939	0.04250	0.04551
0.40	0.00000	0.00359	0.00717	0.01073	0.01426	0.01775	0.02119	0.02457	0.02787	0.03111	0.03426	0.03732	0.04028	0.04315
.42	0.00000	0.00340	0.00679	0.01016	0.01350	0.01680	0.02006	0.02326	0.02640	0.02948	0.03247	0.03538	0.03820	0.04093
.44	0.00000	0.00322	0.00663	0.00962	0.01279	0.01592	0.01901	0.02205	0.02503	0.02795	0.03079	0.03356	0.03625	0.03885
.46	0.00000	0.00305	0.00609	0.00912	0.01212	0.01509	0.01802	0.02091	0.02374	0.02651	0.02922	0.03185	0.03441	0.03689
.48	0.00000	0.00289	0.00578	0.00865	0.01150	0.01432	0.01710	0.01984	0.02253	0.02517	0.02774	0.03025	0.03269	0.03505
0.50	0.00000	0.00274	0.00548	0.00821	0.01091	0.01359	0.01623	0.01884	0.02140	0.02390	0.02635	0.02874	0.03107	0.03332

Axial coordinate, z	Radial coordinate, r													
	0.28	0.30	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46	0.48	0.50	0.52	0.54
0.00	0.15009	0.15547	0.16047	0.16512	0.16943	0.17342	0.17710	0.18047	0.18354	0.18632	0.18883	0.19105	0.19299	0.19467
.02	0.14046	0.14582	0.15080	0.15544	0.15974	0.16371	0.16738	0.17074	0.17380	0.17658	0.17908	0.18129	0.18323	0.18490
.04	0.13154	0.13684	0.14177	0.14637	0.15063	0.15457	0.15820	0.16154	0.16458	0.16734	0.16982	0.17202	0.17395	0.17561
.06	0.12328	0.12849	0.13335	0.13787	0.14207	0.14596	0.14955	0.15285	0.15585	0.15858	0.16104	0.16322	0.16513	0.16677
.08	0.11563	0.12072	0.12548	0.12992	0.13404	0.13786	0.14139	0.14464	0.14760	0.15029	0.15271	0.15488	0.15675	0.15837
0.10	0.10854	0.11350	0.11814	0.12247	0.12650	0.13025	0.13370	0.13689	0.13979	0.14244	0.14481	0.14693	0.14879	0.15039
.12	0.10197	0.10678	0.11129	0.11550	0.11943	0.12309	0.12646	0.12957	0.13242	0.13501	0.13734	0.13942	0.14124	0.14282
.14	0.09587	0.10052	0.10489	0.10898	0.11280	0.11635	0.11964	0.12268	0.12545	0.12798	0.13026	0.13230	0.13409	0.13564
.16	0.09021	0.09470	0.09892	0.10288	0.10658	0.11003	0.11322	0.11617	0.11888	0.12134	0.12397	0.12556	0.12732	0.12884
.18	0.08495	0.08927	0.09334	0.09716	0.10074	0.10408	0.10718	0.11004	0.11267	0.11507	0.11724	0.11918	0.12090	0.12239
0.20	0.08006	0.08421	0.08812	0.09181	0.09526	0.09849	0.10149	0.10426	0.10681	0.10915	0.11126	0.11315	0.11482	0.11628
.22	0.07551	0.07949	0.08325	0.08679	0.09012	0.09323	0.09613	0.09882	0.10129	0.10355	0.10560	0.10744	0.10908	0.11050
.24	0.07126	0.07507	0.07868	0.08209	0.08529	0.08829	0.09109	0.09368	0.09608	0.09827	0.10026	0.10205	0.10364	0.10503
.26	0.06730	0.07095	0.07441	0.07768	0.08076	0.08364	0.08634	0.08885	0.09116	0.09328	0.09521	0.09695	0.09850	0.09986
.28	0.06361	0.06709	0.07041	0.07354	0.07650	0.07928	0.08187	0.08429	0.08652	0.08857	0.09044	0.09213	0.09364	0.09496
0.30	0.06015	0.06348	0.06665	0.06966	0.07250	0.07516	0.07766	0.07999	0.08214	0.08413	0.08594	0.08758	0.08904	0.09034
.32	0.05692	0.06010	0.06314	0.06601	0.06873	0.07130	0.07370	0.07594	0.07802	0.07993	0.08168	0.08327	0.08470	0.08596
.34	0.05389	0.05693	0.05983	0.06259	0.06520	0.06766	0.06996	0.07212	0.07412	0.07597	0.07766	0.07920	0.08059	0.08182
.36	0.05106	0.05396	0.05673	0.05937	0.06187	0.06423	0.06644	0.06852	0.07045	0.07223	0.07387	0.07536	0.07670	0.07790
.38	0.04840	0.05117	0.05382	0.05634	0.05874	0.06100	0.06313	0.06512	0.06698	0.06870	0.07028	0.07173	0.07303	0.07420
0.40	0.04590	0.04855	0.05108	0.05349	0.05579	0.05796	0.06000	0.06192	0.06371	0.06537	0.06690	0.06829	0.06956	0.07069
.42	0.04356	0.04608	0.04850	0.05081	0.05301	0.05509	0.05705	0.05890	0.06062	0.06222	0.06369	0.06505	0.06627	0.06738
.44	0.04136	0.04377	0.04608	0.04829	0.05039	0.05239	0.05427	0.05604	0.05770	0.05924	0.06067	0.06198	0.06317	0.06424
.46	0.03928	0.04159	0.04380	0.04591	0.04792	0.04984	0.05165	0.05335	0.05494	0.05643	0.05781	0.05907	0.06023	0.06127
.48	0.03734	0.03954	0.04165	0.04367	0.04560	0.04743	0.04917	0.05080	0.05234	0.05377	0.05510	0.05633	0.05745	0.05846
0.50	0.03550	0.03760	0.03962	0.04156	0.04340	0.04516	0.04683	0.04840	0.04988	0.05126	0.05254	0.05373	0.05482	0.05580

Axial coordinate, z	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76	0.78	0.80	0.82
0.00	0.19606	0.19719	0.19805	0.19863	0.19893	0.19896	0.19869	0.19814	0.19728	0.19611	0.19461	0.19278	0.19058	0.18799
.02	0.18630	0.18743	0.18828	0.18886	0.18917	0.18919	0.18893	0.18838	0.18752	0.18636	0.18487	0.18304	0.18086	0.17829
.04	0.17700	0.17812	0.17897	0.17955	0.17986	0.17989	0.17963	0.17909	0.17825	0.17711	0.17564	0.17384	0.17169	0.16917
.06	0.16815	0.16926	0.17011	0.17069	0.17100	0.17104	0.17079	0.17027	0.16945	0.16834	0.16691	0.16516	0.16306	0.16062
.08	0.15974	0.16084	0.16168	0.16226	0.16258	0.16262	0.16240	0.16190	0.16111	0.16003	0.15865	0.15696	0.15495	0.15260
0.10	0.15174	0.15283	0.15367	0.15425	0.15457	0.15463	0.15443	0.15396	0.15321	0.15218	0.15086	0.14925	0.14733	0.14509
.12	0.14415	0.14523	0.14606	0.14664	0.14697	0.14705	0.14687	0.14643	0.14573	0.14476	0.14351	0.14198	0.14016	0.13805
.14	0.13695	0.13802	0.13884	0.13943	0.13977	0.13986	0.13971	0.13931	0.13866	0.13774	0.13657	0.13514	0.13343	0.13146
.16	0.13012	0.13118	0.13200	0.13258	0.13294	0.13305	0.13293	0.13257	0.13197	0.13112	0.13003	0.12869	0.12710	0.12526
.18	0.12365	0.12469	0.12551	0.12610	0.12646	0.12660	0.12651	0.12619	0.12564	0.12487	0.12386	0.12262	0.12114	0.11944
0.20	0.11752	0.11855	0.11936	0.11995	0.12033	0.12049	0.12043	0.12016	0.11967	0.11896	0.11803	0.11689	0.11553	0.11396
.22	0.11172	0.11273	0.11353	0.11413	0.11452	0.11471	0.11468	0.11445	0.11402	0.11338	0.11253	0.11149	0.11024	0.10880
.24	0.10623	0.10722	0.10802	0.10862	0.10902	0.10923	0.10924	0.10906	0.10868	0.10810	0.10734	0.10639	0.10525	0.10393
.26	0.10103	0.10201	0.10280	0.10341	0.10382	0.10405	0.10409	0.10395	0.10363	0.10312	0.10243	0.10157	0.10053	0.09933
.28	0.09611	0.09708	0.09786	0.09847	0.09890	0.09915	0.09922	0.09885	0.09840	0.09779	0.09702	0.09608	0.09497	
0.30	0.09146	0.09241	0.09319	0.09380	0.09423	0.09451	0.09461	0.09455	0.09433	0.09394	0.09340	0.09271	0.09186	0.09087
.32	0.08705	0.08799	0.08876	0.08937	0.08982	0.09011	0.09025	0.09020	0.09005	0.08972	0.08925	0.08863	0.08787	0.08698
.34	0.08289	0.08381	0.08457	0.08519	0.08565	0.08596	0.08612	0.08613	0.08600	0.08572	0.08531	0.08477	0.08409	0.08329
.36	0.07895	0.07985	0.08061	0.08122	0.08169	0.08202	0.08220	0.08225	0.08216	0.08194	0.08158	0.08110	0.08050	0.07979
.38	0.07522	0.07611	0.07686	0.07747	0.07795	0.07829	0.07850	0.07857	0.07852	0.07835	0.07805	0.07763	0.07710	0.07646
0.40	0.07170	0.07257	0.07331	0.07392	0.07440	0.07476	0.07499	0.07509	0.07508	0.07494	0.07470	0.07434	0.07387	0.07330
.42	0.06836	0.06921	0.06994	0.07055	0.07104	0.07141	0.07166	0.07179	0.07181	0.07172	0.07151	0.07121	0.07080	0.07030
.44	0.06520	0.06604	0.06676	0.06737	0.06786	0.06824	0.06850	0.06866	0.06871	0.06865	0.06849	0.06824	0.06789	0.06745
.46	0.06221	0.06303	0.06374	0.06435	0.06484	0.06523	0.06551	0.06569	0.06576	0.06574	0.06563	0.06541	0.06511	0.06473
.48	0.05938	0.06018	0.06088	0.06148	0.06198	0.06237	0.06267	0.06287	0.06297	0.06298	0.06290	0.06273	0.06248	0.06214
0.50	0.05669	0.05748	0.05818	0.05877	0.05927	0.05967	0.05998	0.06019	0.06032	0.06036	0.06031	0.06018	0.05997	0.05968

Axial coordinate, z	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.02	1.04	1.06	1.08	1.10
0.00	0.18499	0.18153	0.17756	0.17301	0.16778	0.16171	0.15453	0.14567	0.13241	0.11919	0.11038	0.10322	0.09709	0.09172
.02	0.17531	0.17188	0.16794	0.16345	0.15829	0.15235	0.14542	0.13719	0.12754	0.11791	0.10973	0.10279	0.09679	0.09149
.04	0.16625	0.16290	0.15907	0.15472	0.14978	0.14417	0.13780	0.13064	0.12290	0.11516	0.10802	0.10163	0.09593	0.09083
.06	0.15779	0.15456	0.15089	0.14676	0.14211	0.13693	0.13120	0.12499	0.11846	0.11192	0.10569	0.09990	0.09462	0.08979
.08	0.14990	0.14682	0.14335	0.13947	0.13517	0.13044	0.12531	0.11985	0.11419	0.10853	0.10303	0.09782	0.09296	0.08845
0.10	0.14253	0.13963	0.13638	0.13277	0.12881	0.12451	0.11991	0.11507	0.11010	0.10511	0.10022	0.09552	0.09106	0.08687
.12	0.13564	0.13293	0.12991	0.12658	0.12295	0.11905	0.11491	0.11059	0.10617	0.10172	0.09734	0.09308	0.08900	0.08513
.14	0.12920	0.12668	0.12388	0.12082	0.11751	0.11396	0.11023	0.10636	0.10239	0.09840	0.09445	0.09058	0.08684	0.08326
.16	0.12317	0.12083	0.11825	0.11544	0.11242	0.10920	0.10583	0.10233	0.09876	0.09516	0.09157	0.08805	0.08462	0.08131
.18	0.11751	0.11535	0.11298	0.11041	0.10765	0.10473	0.10166	0.09850	0.09526	0.09200	0.08874	0.08552	0.08238	0.07932
0.20	0.11218	0.11020	0.10803	0.10568	0.10316	0.10050	0.09771	0.09484	0.09190	0.08893	0.08596	0.08302	0.08012	0.07730
.22	0.10717	0.10535	0.10336	0.10121	0.09892	0.09649	0.09396	0.09134	0.08867	0.08596	0.08325	0.08054	0.07788	0.07526
.24	0.10244	0.10078	0.09896	0.09700	0.09490	0.09269	0.09038	0.08800	0.08556	0.08308	0.08060	0.07811	0.07566	0.07324
.26	0.09797	0.09646	0.09480	0.09300	0.09109	0.08908	0.08697	0.08480	0.08257	0.08030	0.07802	0.07574	0.07347	0.07123
.28	0.09375	0.09237	0.09085	0.08922	0.08748	0.08564	0.08371	0.08173	0.07969	0.07761	0.07551	0.07341	0.07132	0.06924
0.30	0.08975	0.08849	0.08712	0.08563	0.08404	0.08236	0.08060	0.07878	0.07691	0.07501	0.07308	0.07115	0.06921	0.06729
.32	0.08596	0.08482	0.08357	0.08221	0.08076	0.07923	0.07763	0.07596	0.07425	0.07250	0.07072	0.06894	0.06715	0.06537
.34	0.08237	0.08133	0.08020	0.07896	0.07764	0.07624	0.07478	0.07325	0.07168	0.07007	0.06844	0.06679	0.06514	0.06348
.36	0.07896	0.07802	0.07699	0.07587	0.07467	0.07339	0.07205	0.07065	0.06921	0.06773	0.06623	0.06471	0.06318	0.06164
.38	0.07572	0.07487	0.07394	0.07292	0.07183	0.07066	0.06944	0.06816	0.06683	0.06548	0.06409	0.06268	0.06127	0.05984
0.40	0.07264	0.07188	0.07103	0.07011	0.06911	0.06805	0.06693	0.06576	0.06455	0.06330	0.06202	0.06072	0.05941	0.05839
.42	0.06971	0.06903	0.06826	0.06743	0.06652	0.06555	0.06453	0.06346	0.06234	0.06120	0.06002	0.05882	0.05760	0.05638
.44	0.06692	0.06631	0.06562	0.06487	0.06404	0.06316	0.06223	0.06125	0.06023	0.05917	0.05808	0.05698	0.05585	0.05472
.46	0.06426	0.06372	0.06310	0.06242	0.06167	0.06087	0.06002	0.05912	0.05819	0.05721	0.05621	0.05519	0.05415	0.05310
.48	0.06173	0.06125	0.06070	0.06008	0.05941	0.05868	0.05790	0.05708	0.05622	0.05533	0.05441	0.05346	0.05250	0.05152
0.50	0.05932	0.05889	0.05840	0.05785	0.05724	0.05658	0.05587	0.05512	0.05433	0.05351	0.05266	0.05179	0.05090	0.04994

TABLE II. - Concluded. NONDIMENSIONAL RADIAL FIELD COMPONENT h_r

(d) Concluded. Increments in axial and radial coordinates, 0.02

Axial coordinate, z	Radial coordinate, r													
	1.12	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34	1.36	1.38
0.00	0.08694	0.08262	0.07871	0.07512	0.07183	0.06878	0.06596	0.06333	0.06087	0.05858	0.05643	0.05440	0.05250	0.05070
.02	0.08675	0.08248	0.07858	0.07502	0.07174	0.06870	0.06589	0.06327	0.06082	0.05853	0.05638	0.05436	0.05246	0.05067
.04	0.08623	0.08205	0.07822	0.07471	0.07147	0.06848	0.06569	0.06309	0.06066	0.05839	0.05626	0.05425	0.05236	0.05057
.06	0.08539	0.08135	0.07764	0.07422	0.07105	0.06810	0.06536	0.06280	0.06041	0.05816	0.05605	0.05406	0.05219	0.05042
.08	0.08428	0.08042	0.07685	0.07354	0.07046	0.06759	0.06491	0.06240	0.06005	0.05784	0.05576	0.05380	0.05195	0.05020
0.10	0.08296	0.07930	0.07589	0.07271	0.06974	0.06695	0.06435	0.06190	0.05960	0.05744	0.05540	0.05347	0.05165	0.04993
.12	0.08147	0.07802	0.07478	0.07174	0.06889	0.06620	0.06368	0.06131	0.05907	0.05696	0.05496	0.05308	0.05129	0.04960
.14	0.07985	0.07661	0.07355	0.07066	0.06793	0.06535	0.06292	0.06063	0.05846	0.05640	0.05446	0.05262	0.05087	0.04922
.16	0.07814	0.07511	0.07222	0.06948	0.06688	0.06442	0.06208	0.05987	0.05777	0.05579	0.05390	0.05211	0.05041	0.04879
.18	0.07637	0.07353	0.07082	0.06823	0.06576	0.06341	0.06117	0.05905	0.05703	0.05511	0.05328	0.05154	0.04989	0.04831
0.20	0.07455	0.07191	0.06936	0.06691	0.06458	0.06234	0.06021	0.05817	0.05623	0.05438	0.05262	0.05093	0.04933	0.04780
.22	0.07272	0.07025	0.06786	0.06556	0.06334	0.06122	0.05919	0.05724	0.05538	0.05361	0.05191	0.05028	0.04873	0.04724
.24	0.07087	0.06857	0.06633	0.06416	0.06208	0.06007	0.05813	0.05628	0.05450	0.05279	0.05116	0.04959	0.04809	0.04666
.26	0.06903	0.06688	0.06478	0.06275	0.06078	0.05888	0.05704	0.05528	0.05358	0.05191	0.05038	0.04887	0.04742	0.04604
.28	0.06720	0.06519	0.06323	0.06132	0.05947	0.05767	0.05593	0.05425	0.05263	0.05107	0.04957	0.04812	0.04673	0.04539
0.30	0.06539	0.06352	0.06168	0.05989	0.05815	0.05645	0.05480	0.05321	0.05166	0.05017	0.04874	0.04735	0.04601	0.04472
.32	0.06360	0.06186	0.06014	0.05846	0.05682	0.05522	0.05366	0.05215	0.05068	0.04926	0.04789	0.04656	0.04528	0.04404
.34	0.06184	0.06022	0.05861	0.05704	0.05549	0.05398	0.05251	0.05108	0.04968	0.04833	0.04702	0.04575	0.04452	0.04333
.36	0.06012	0.05860	0.05710	0.05562	0.05417	0.05275	0.05136	0.05000	0.04868	0.04739	0.04614	0.04493	0.04376	0.04262
.38	0.05842	0.05701	0.05561	0.05423	0.05286	0.05152	0.05021	0.04893	0.04767	0.04645	0.04526	0.04410	0.04298	0.04189
0.40	0.05677	0.05545	0.05414	0.05285	0.05157	0.05031	0.04907	0.04785	0.04667	0.04551	0.04437	0.04327	0.04220	0.04115
.42	0.05515	0.05392	0.05270	0.05149	0.05029	0.04910	0.04793	0.04679	0.04566	0.04456	0.04348	0.04243	0.04141	0.04041
.44	0.05357	0.05243	0.05129	0.05015	0.04902	0.04791	0.04681	0.04572	0.04466	0.04362	0.04259	0.04159	0.04062	0.03966
.46	0.05203	0.05097	0.04990	0.04884	0.04778	0.04673	0.04570	0.04467	0.04367	0.04268	0.04171	0.04076	0.03982	0.03891
.48	0.05053	0.04954	0.04855	0.04755	0.04656	0.04557	0.04460	0.04363	0.04268	0.04175	0.04083	0.03992	0.03903	0.03817
0.50	0.04908	0.04815	0.04722	0.04629	0.04536	0.04444	0.04352	0.04261	0.04171	0.04082	0.03995	0.03909	0.03825	0.03742

Axial coordinate, z	Radial coordinate, r													
	1.40	1.42	1.44	1.46	1.48	1.50	1.52	1.54	1.56	1.58	1.60	1.62	1.64	1.66
0.00	0.04900	0.04739	0.04587	0.04442	0.04305	0.04174	0.04049	0.03931	0.03818	0.03709	0.03606	0.03507	0.03413	0.03322
.02	0.04897	0.04736	0.04584	0.04440	0.04302	0.04172	0.04048	0.03929	0.03816	0.03708	0.03605	0.03506	0.03411	0.03321
.04	0.04888	0.04728	0.04577	0.04433	0.04296	0.04166	0.04042	0.03924	0.03811	0.03704	0.03601	0.03502	0.03408	0.03318
.06	0.04874	0.04715	0.04565	0.04422	0.04286	0.04157	0.04034	0.03916	0.03804	0.03697	0.03594	0.03496	0.03402	0.03312
.08	0.04854	0.04697	0.04548	0.04407	0.04272	0.04144	0.04021	0.03905	0.03793	0.03687	0.03585	0.03488	0.03394	0.03305
0.10	0.04829	0.04674	0.04527	0.04387	0.04254	0.04127	0.04006	0.03890	0.03780	0.03674	0.03573	0.03477	0.03384	0.03295
.12	0.04799	0.04647	0.04502	0.04364	0.04232	0.04107	0.03987	0.03873	0.03764	0.03659	0.03559	0.03463	0.03371	0.03283
.14	0.04764	0.04615	0.04472	0.04336	0.04207	0.04083	0.03965	0.03853	0.03745	0.03641	0.03543	0.03448	0.03357	0.03269
.16	0.04725	0.04578	0.04439	0.04305	0.04178	0.04057	0.03940	0.03829	0.03723	0.03621	0.03524	0.03430	0.03340	0.03254
.18	0.04681	0.04538	0.04401	0.04271	0.04146	0.04027	0.03913	0.03803	0.03699	0.03599	0.03502	0.03410	0.03321	0.03236
0.20	0.04634	0.04494	0.04360	0.04233	0.04111	0.03994	0.03882	0.03775	0.03672	0.03574	0.03479	0.03388	0.03301	0.03217
.22	0.04582	0.04447	0.04317	0.04192	0.04073	0.03959	0.03849	0.03744	0.03643	0.03547	0.03454	0.03364	0.03278	0.03196
.24	0.04528	0.04396	0.04270	0.04148	0.04032	0.03921	0.03814	0.03711	0.03612	0.03517	0.03426	0.03339	0.03254	0.03173
.26	0.04471	0.04343	0.04200	0.04012	0.03989	0.03880	0.03776	0.03676	0.03579	0.03486	0.03397	0.03311	0.03228	0.03149
.28	0.04411	0.04287	0.04168	0.04054	0.03944	0.03838	0.03736	0.03639	0.03544	0.03454	0.03366	0.03282	0.03201	0.03123
0.30	0.04348	0.04229	0.04114	0.04003	0.03896	0.03794	0.03695	0.03599	0.03508	0.03419	0.03334	0.03251	0.03172	0.03096
.32	0.04284	0.04169	0.04058	0.03951	0.03847	0.03748	0.03652	0.03559	0.03469	0.03383	0.03300	0.03219	0.03142	0.03067
.34	0.04218	0.04107	0.04000	0.03897	0.03797	0.03700	0.03607	0.03517	0.03430	0.03346	0.03264	0.03186	0.03110	0.03037
.36	0.04151	0.04044	0.03941	0.03881	0.03744	0.03651	0.03560	0.03473	0.03389	0.03307	0.03228	0.03152	0.03078	0.03006
.38	0.04083	0.03980	0.03881	0.03784	0.03691	0.03601	0.03513	0.03428	0.03346	0.03267	0.03190	0.03116	0.03044	0.02974
0.40	0.04014	0.03915	0.03819	0.03727	0.03636	0.03549	0.03465	0.03383	0.03303	0.03226	0.03152	0.03079	0.03009	0.02941
.42	0.03944	0.03849	0.03757	0.03668	0.03581	0.03497	0.03415	0.03336	0.03259	0.03184	0.03112	0.03042	0.02974	0.02908
.44	0.03873	0.03783	0.03694	0.03609	0.03525	0.03444	0.03365	0.03288	0.03214	0.03142	0.03071	0.03003	0.02937	0.02873
.46	0.03803	0.03716	0.03631	0.03549	0.03468	0.03390	0.03314	0.03240	0.03168	0.03098	0.03030	0.02964	0.02900	0.02838
.48	0.03732	0.03649	0.03568	0.03489	0.03411	0.03336	0.03263	0.03192	0.03122	0.03054	0.02989	0.02925	0.02862	0.02802
0.50	0.03661	0.03582	0.03504	0.03428	0.03354	0.03282	0.03211	0.03142	0.03075	0.03010	0.02946	0.02884	0.02824	0.02765

2/11/85
40

"The aeronautical and space activities of the United States shall be conducted so as to contribute . . . to the expansion of human knowledge of phenomena in the atmosphere and space. The Administration shall provide for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof."

—NATIONAL AERONAUTICS AND SPACE ACT OF 1958

NASA SCIENTIFIC AND TECHNICAL PUBLICATIONS

TECHNICAL REPORTS: Scientific and technical information considered important, complete, and a lasting contribution to existing knowledge.

TECHNICAL NOTES: Information less broad in scope but nevertheless of importance as a contribution to existing knowledge.

TECHNICAL MEMORANDUMS: Information receiving limited distribution because of preliminary data, security classification, or other reasons.

CONTRACTOR REPORTS: Technical information generated in connection with a NASA contract or grant and released under NASA auspices.

TECHNICAL TRANSLATIONS: Information published in a foreign language considered to merit NASA distribution in English.

TECHNICAL REPRINTS: Information derived from NASA activities and initially published in the form of journal articles.

SPECIAL PUBLICATIONS: Information derived from or of value to NASA activities but not necessarily reporting the results of individual NASA-programmed scientific efforts. Publications include conference proceedings, monographs, data compilations, handbooks, sourcebooks, and special bibliographies.

Details on the availability of these publications may be obtained from:

SCIENTIFIC AND TECHNICAL INFORMATION DIVISION
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Washington, D.C. 20546